

The Trade Wind Zone Oceanography Pilot Study Part III: Townsend Cromwell Cruises 8, 9, and 10 September to November 1964

By Robert L. Charnell, David W. K. Au,
and Gunter R. Seckel



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FISH AND WILDLIFE SERVICE

BUREAU OF COMMERCIAL FISHERIES

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ABSTRACT

A standard grid of oceanographic stations in an area bounded by lat. 10° and 26° N., and long. 148° and 157° W., was occupied at monthly intervals between February 1964 and June 1965. For the third set of three cruises, Townsend Cromwell cruises 8, 9, and 10, September to November 1964, oceanographic station data are tabulated, BT data are presented in vertical sections, and the distribution of surface temperature, surface salinity, and surface dynamic height relative to 1,200 m. for cruises 8 and 9 and 1,000 m. for cruise 10. Methods and procedures as well as the limitations of the data are discussed.

INTRODUCTION

This is the third of a series of reports presenting physical oceanographic data of the Trade Wind Zone Oceanography Pilot Study conducted by the Bureau of Commercial Fisheries Biological Laboratory, Honolulu. The data were obtained during a series of 16 monthly cruises between February 1964 and June 1965 over a set station pattern in an area near the Hawaiian Islands bounded approximately by lat. 10° and 26° N. and long. 148° and 157° W.

The complete set of observations represents a three-dimensional time-sequence distribution of properties (temperature, salinity....) in the trade wind zone of the central North Pacific. It is a pilot study of an investigation in which seasonal changes in the distribution of properties are to be explained in terms of 1) seasonal

changes in the processes of net heat and water exchange across the sea surface, and 2) the effects of seasonal changes in wind stress and water motion. The Trade Wind Zone Oceanography Program was planned by Gunter R. Seckel and is carried out under his direction by HL (Bureau of Commercial Fisheries Biological Laboratory, Honolulu).

This report contains the BT (bathythermograph) and oceanographic station data for the 8th, 9th, and 10th cruises in the series. (Townsend Cromwell cruise 7 was a trawling cruise, not part of this series, and is not reported here.) Figure 1 shows the cruise track for the three cruises and gives the position of the Nansen bottle oceanographic casts and the BT casts.

All cruises were made by the R/V Townsend Cromwell. Cruises 8 and 10 were commanded by Captain Robert E. K. D. Lee, with officers Jan Liefting and Pete Andrich; cruise 9 was commanded by Acting Master Jan Liefting, with Acting First Officer Pete Andrich. The scientific parties were composed of the following:

Townsend Cromwell, cruise 8:

September 1 to 20, 1964

David W. K. Au - HL - Field Party Chief

Claude E. Allen - HL

Note.--Robert L. Charnell, Oceanographer, presently with Hazelton Nuclear Science Corp., Palo Alto, California 94303, formerly with Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii; David W. K. Au, Physical Science Technician and Gunter R. Seckel, Oceanographer, Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812.

Theodore K. Hirota - HL
 Lloyd T. Watarai - HL
 George F. Heimerdinger - National
 Oceanographic Data Center
 Roger B. Clapp - Smithsonian Institution
 Dayle N. Husted - Smithsonian Institution
Townsend Cromwell, cruise 9:
 October 1 to 20, 1964
 Robert L. Charnell - HL - Field Party Chief
 Arthur M. Bauckham, Jr. - HL
 Robert M. Moncrief - HL
 Lloyd T. Watarai - HL
 Paul LaViolette - U.S. Naval Oceanographic
 Office
 Dayle N. Husted - Smithsonian Institution
 Warren King - Smithsonian Institution
Townsend Cromwell, cruise 10:
 November 4 to 24, 1964
 Everet C. Jones - HL - Field Party Chief
 Claude E. Allen - HL
 Arthur M. Bauckham, Jr. - HL
 Robert M. Moncrief - HL
 R. J. Grishow - U.S. Naval Oceanographic
 Office
 Dayle N. Husted - Smithsonian Institution
 Warren King - Smithsonian Institution

OBSERVATIONS^{1/}

In addition to the regular Nansen and BT casts shown in figure 1, BT casts were made at 18.5-km. (10-nautical-mile) intervals for studies of variability between stations 2 and 4, 17 and 19, and 23 and 25.

To supplement the physical oceanographic data presented in this report, additional information of the following types was obtained.

Biological

A 1/2-hour surface plankton tow was taken daily at 2000 hours with a 1-m. net. Flyingfish which stranded themselves on deck were collected daily. Regular observations of fish schools, sea mammals, and birds were supplemented by more detailed bird counts by observers from the Smithsonian Institution.

^{1/}All data not presented in this report are on file at the Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812

Meteorological

Rain measurements as well as standard weather observations were taken four times daily. Radiation from sun and sky was measured and recorded daily with an Eppley^{2/} pyranometer. These observations were supplemented by daily color photographs of clouds.

Current

Ten plastic-enclosed drift cards, described by Barkley, Ito, and Brown (1964), were released at each BT cast. An additional 10 cards were released at hourly intervals during the first and last 12 hours of cruise 9 and during the first 12 and last 9 hours of cruise 10.

PREPARATION OF DATA

Standard oceanographic procedures were employed in the preparation of the data for this report. Salinity determinations were made on the University of Washington salinity bridge (Paquette, 1958). Duplicate determinations were made with an induction salinometer. When values differed more than 0.02 ‰, the salinity was redetermined on the U.W. salinity bridge, and the mean of the salinity bridge determinations was reported. Oxygen concentrations were determined by the modified Winkler method (Thompson and Robinson, 1939). Inorganic PO₄-P was determined by the procedure of Robinson and Thompson (1948) as modified at the University of Washington. All thermometers had been calibrated at HL since April 1962. The reported temperatures are estimated to be accurate to ±0.02° C. Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were performed with an IBM 7040 digital computer at the University of Hawaii Computing Center with a program written at HL. Depths were determined by the use of values from the L-Z curve for the actual depth. This procedure gave depth estimated to be within ±10 m. down to 1,000 m. and within ±1 percent below 1,000 m.

Sigma-t, specific volume anomaly, and the dynamic height were computed on the IBM 7040 computer by the program prepared at HL and based on equations given by LaFond (1951).

^{2/}Trade names referred to in this publication do not imply endorsement of commercial products.

The computer also was used to interpolate all properties at standard depths by means of a subroutine furnished by the University of Washington Oceanography Department and based on the interpolation method outlined by Rattray (1962).

In the region of study, a sharp thermocline generally separates a surface mixed layer from the subsurface waters. Only infrequently do Nansen casts adequately define this configuration, with the result that the interpolation program provides inaccurate values for temperature. BT data were used to correct the temperature-depth curve in the thermocline and the isothermal layer. When necessary, a value of temperature was chosen from the corrected curve at standard depths in the mixed layer and upper thermocline and, with the corresponding salinity value from the T-S curve, was used with the Nansen cast data in the interpolation program. The resulting interpolated values were much nearer the actual oceanographic situation as implied by the BT trace.

To estimate the validity of values for the surface distribution charts, the surface bucket values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles. For temperature, variation was fairly random so that the mean of the difference between the two values was well within the accuracy of the surface bucket thermometer. The root mean square value computed from the above differences was less than 0.2° C. Except for cruise 10 the bucket salinity values were usually larger than the Nansen bottle values, most probably owing to salt contamination at the time of sampling. The mean of the differences was about 0.03 ‰ and the root mean square value was within 0.15 ‰ for each cruise.

PRESENTATION OF DATA

For each of the three cruises the original as well as derived data and section plots for the properties have been included.

Tables 1, 2, and 3 contain the oceanographic station data for cruises 8, 9, and 10, respectively. In addition to the position, date, and time at each station, weather and sea conditions in standard notation have been included in the heading of each station. The first five columns of each station listing show the observed depth, temperature, salinity, oxygen, and phosphate, respectively; the next two columns contain cal-

culated sigma-t and specific volume anomaly for the observed data. The next three columns present the interpolated values of temperature and salinity at standard depths and the last three columns contain sigma-t and the specific volume anomaly calculated from the interpolated data and the anomaly of dynamic height summed from the surface. The error terms, defined by the Rattray interpolation technique, that exceeded 0.10 for temperature and 0.05 for salinity have been noted below the tabulation for each station. Interpolated and extrapolated values as well as irregularities in the original data are noted in these tables.

Temperature distribution sections along long. 148° W., 151° W., 154° W., and 157° W. based on the 270-m. BT's are included; so are the shorter zonal sections between stations 7 and 7A, 25 and 26, and 37 and 40. In addition, surface temperature and salinities are presented with each section. All the sections were plotted automatically by the model 566 Calcomp plotter with a program designed at HL. These seven BT sections are shown in figures 2 through 7 for cruise 8, figures 8 through 13 for cruise 9, and figures 14 through 19 for cruise 10.

The surface temperature distributions, based on bucket temperature at each BT cast, are shown in figures 20, 21, and 22 for cruises 8, 9, and 10, respectively.

The surface salinity distributions, based on bucket salinity samples at each BT cast, are shown in figures 23, 24, and 25 for cruises 8, 9, and 10, respectively.

The dynamic topography, relative to 1,200 m. for cruises 8 and 9 and 1,000 m. for cruise 10, is shown in figures 26, 27, and 28, respectively.

ACKNOWLEDGMENTS

The data for these cruises were processed by HL personnel under the direction of Mary Lynne Godfrey. Betty Ann L. Keala did the computer programming.

LITERATURE CITED

- BARKLEY, RICHARD A., BERNARD M. ITO, and ROBERT P. BROWN.
1964. Releases and recoveries of drift bottles and cards in the central Pacific. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 492, iii + 31 p.

LaFOND, EUGENE C.

1951. Processing oceanographic data. U.S. Navy Hydrographic Office Publ. 614, 114 p.

PAQUETTE, ROBERT G.

1958. A modification of the Wenner-Smith-Soule salinity bridge for the determination of salinity in sea water. Dep. Oceanogr. Univ. Wash., Tech. Rep. 61, 57 p.

RATTRAY, MAURICE, JR.

1962. Interpolation errors and oceanographic sampling. Deep-Sea Res. 9: 25-37.

ROBINSON, REX J., and THOMAS G. THOMPSON.

1948. The determination of phosphates in sea water. J. Mar. Res. 7: 33-41.

THOMPSON, THOMAS G., and REX J. ROBINSON.

1939. Notes on the determination of dissolved oxygen in sea water. J. Mar. Res. 2: 1-8.

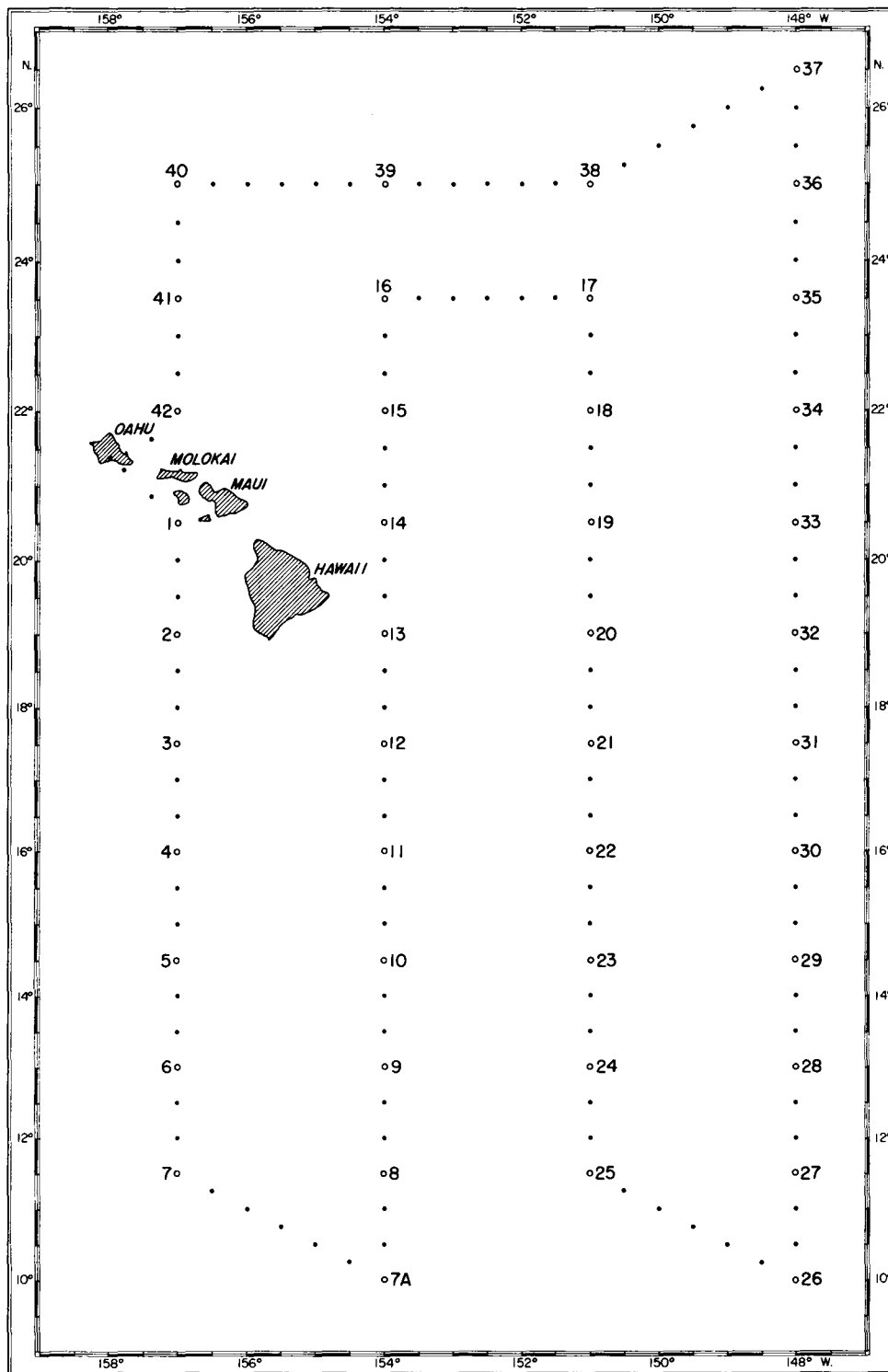


Figure 1.--Track chart for Townsend Cromwell cruises 8, 9, and 10. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

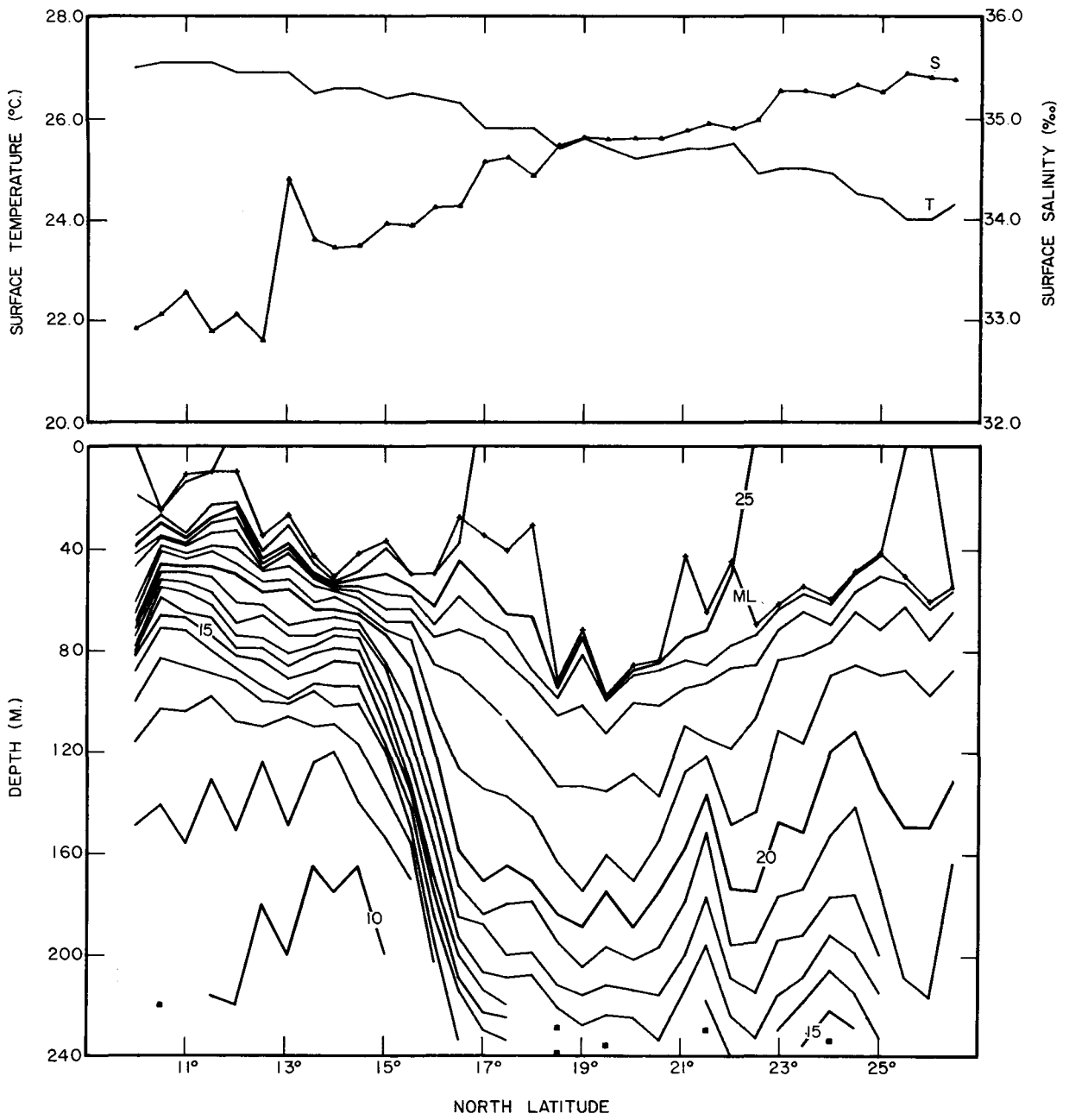


Figure 2.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 8 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

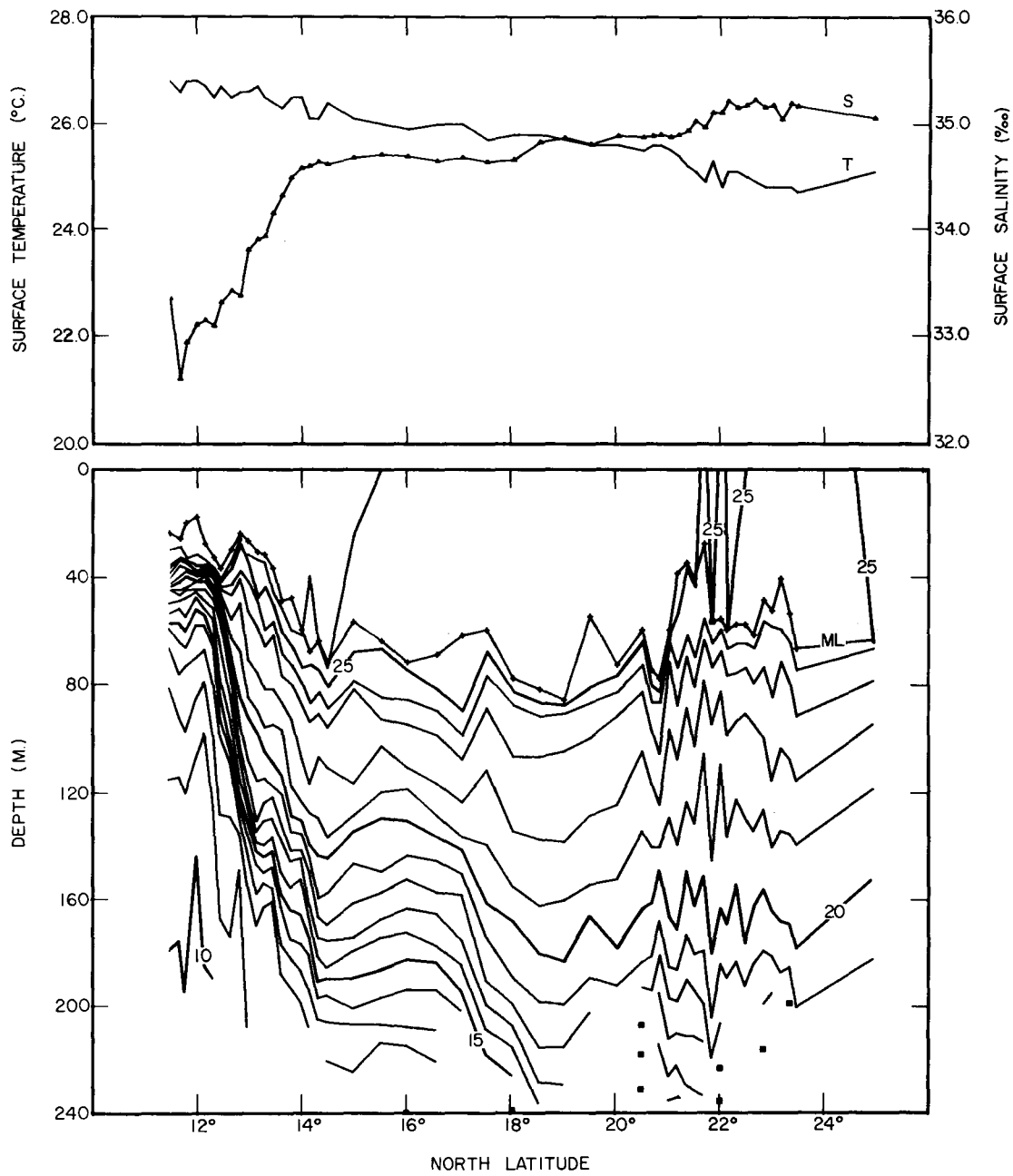


Figure 3.--Surface temperatures (° C.) and salinities (‰) (upper panel) and BT temperature (° C.) section (lower panel) for Townsend Cromwell cruise 8 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

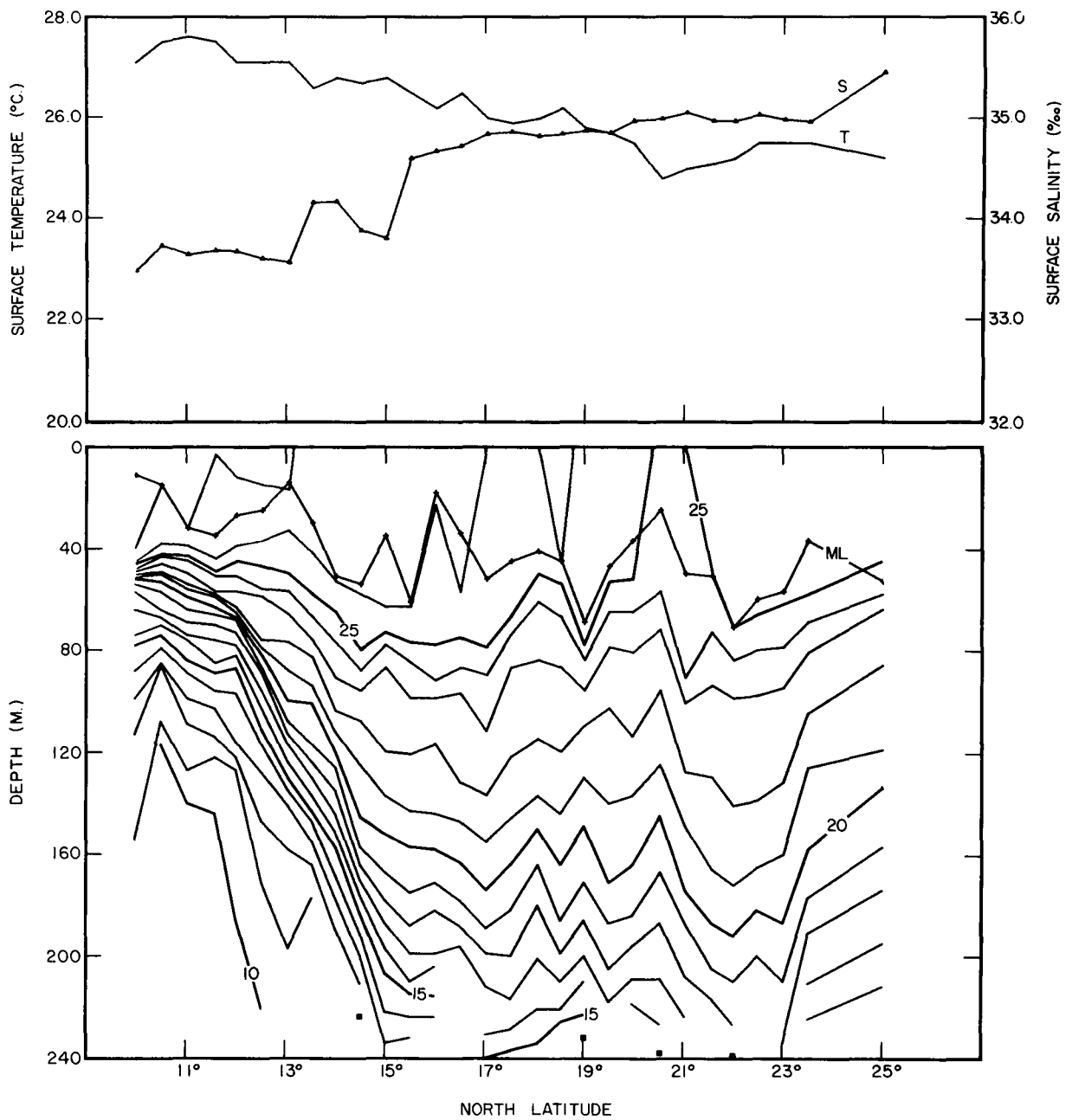


Figure 4.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 8 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

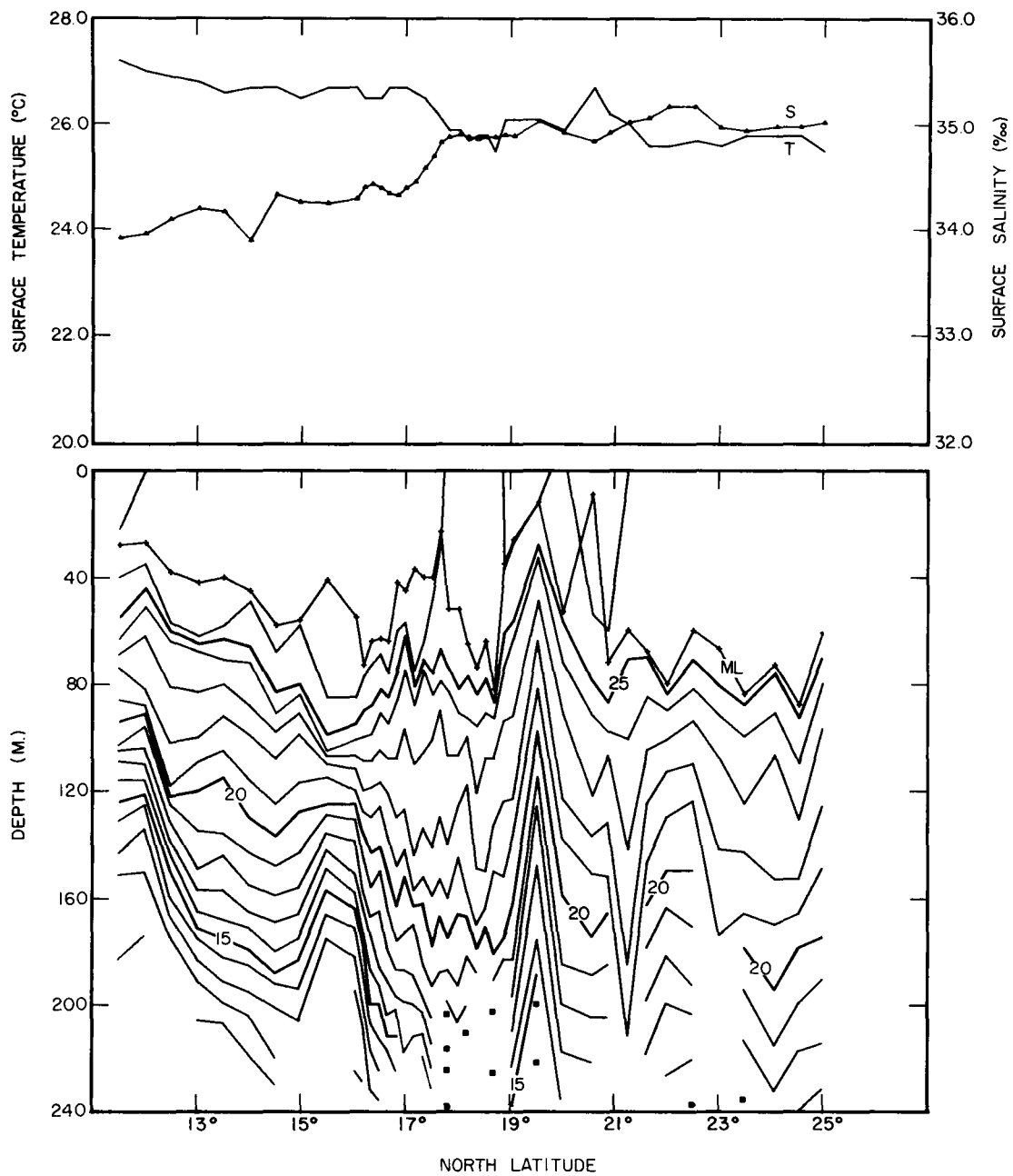


Figure 5.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 8 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

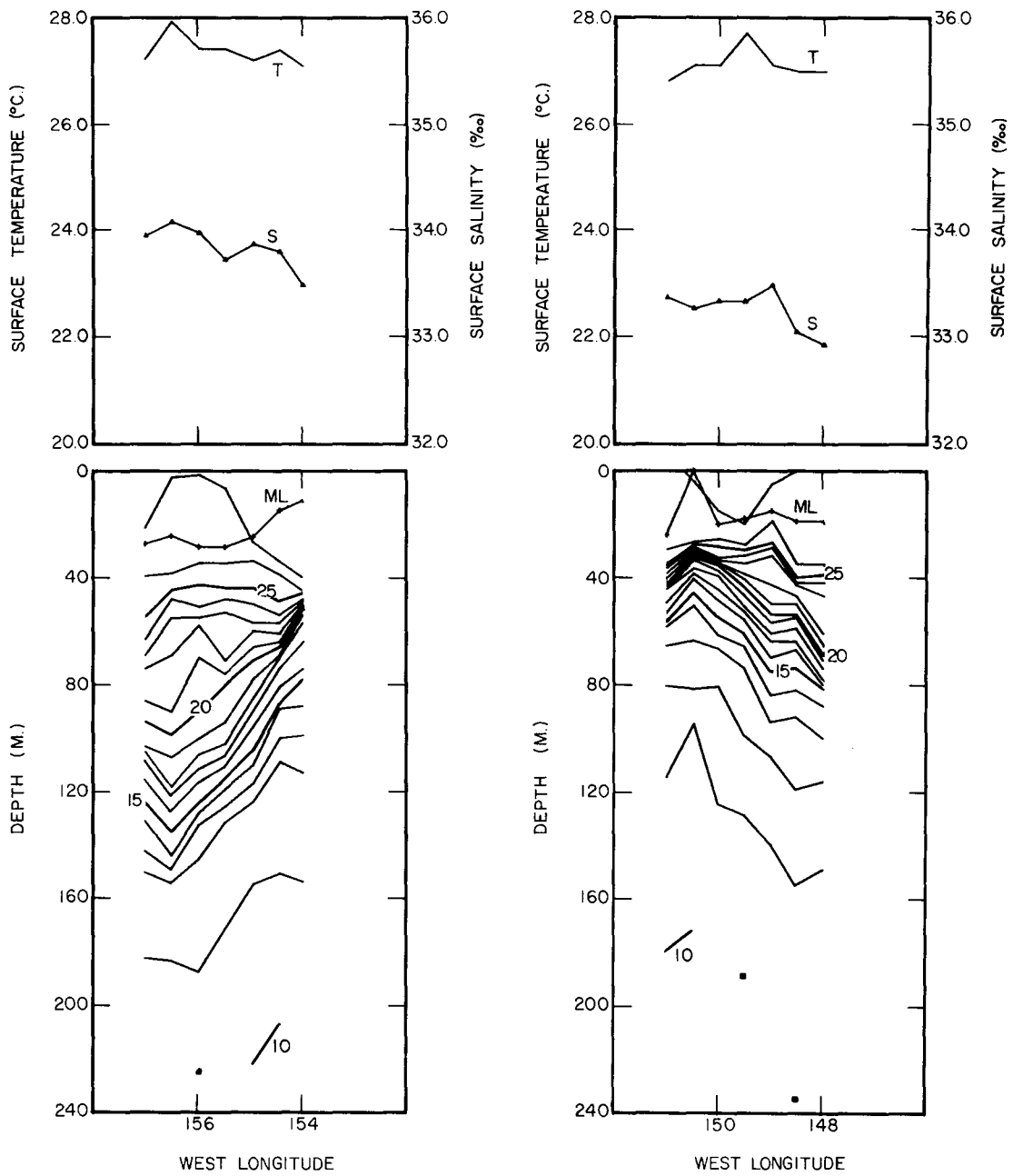


Figure 6.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 8 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

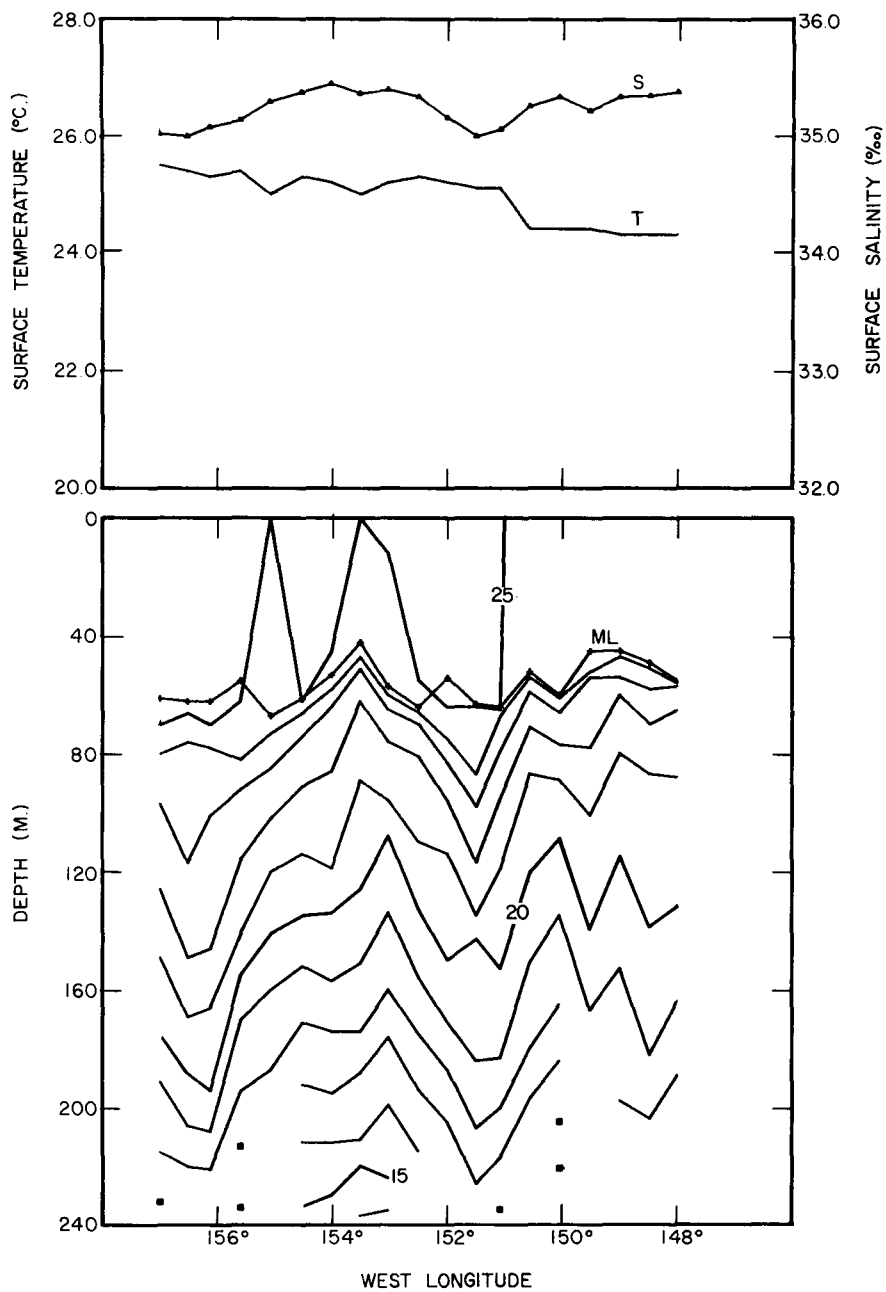


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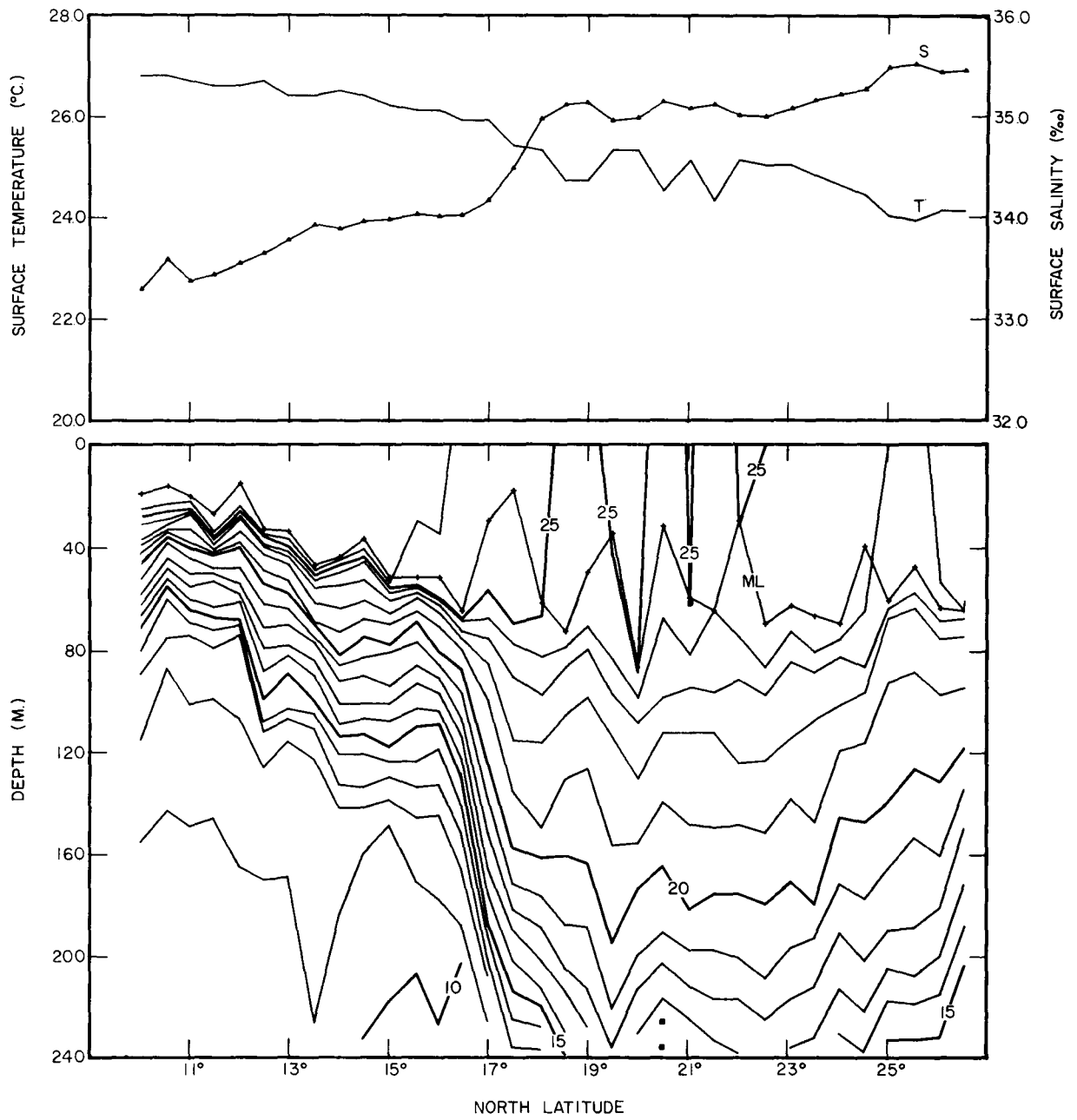


Figure 8.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 9 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

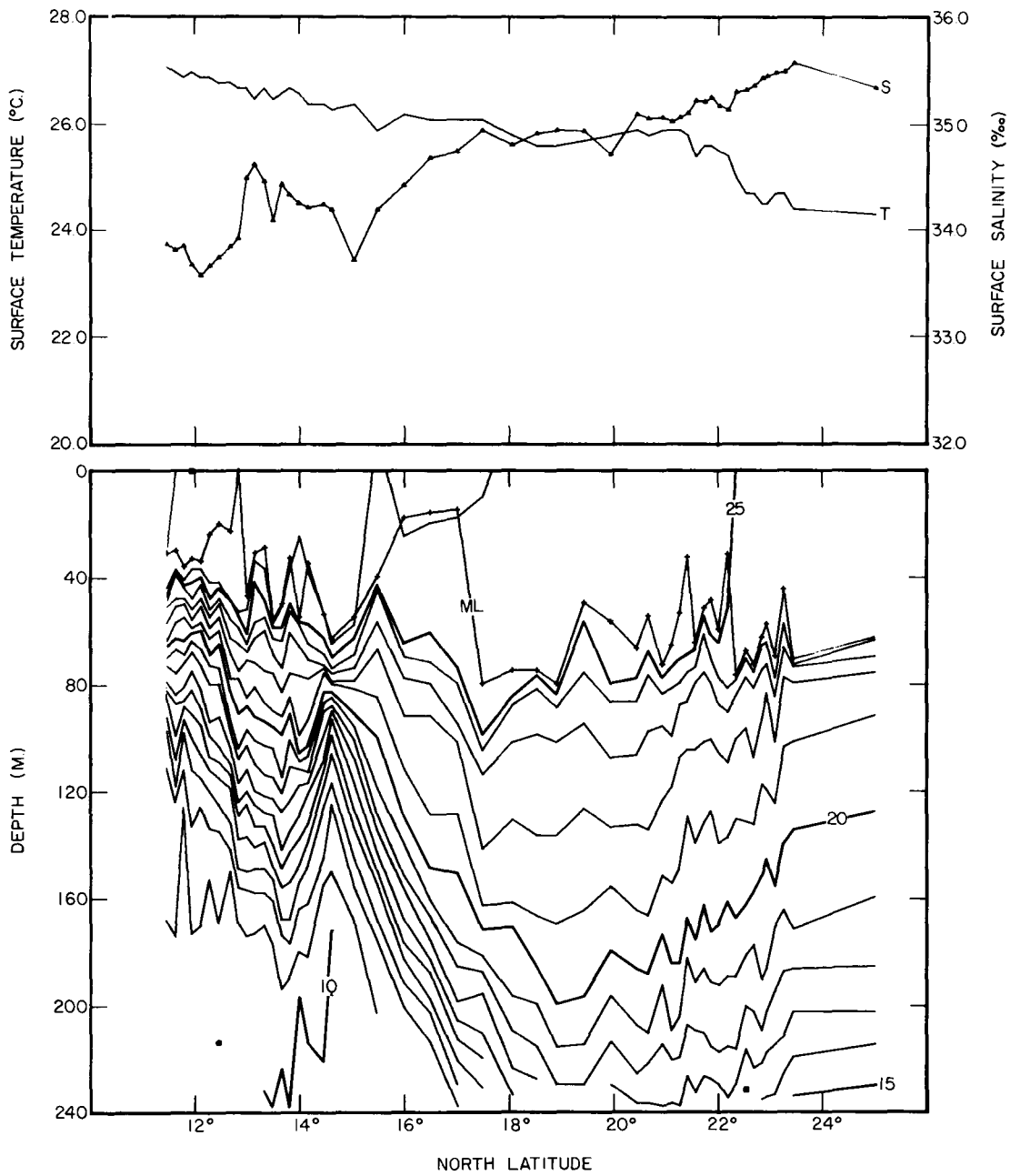


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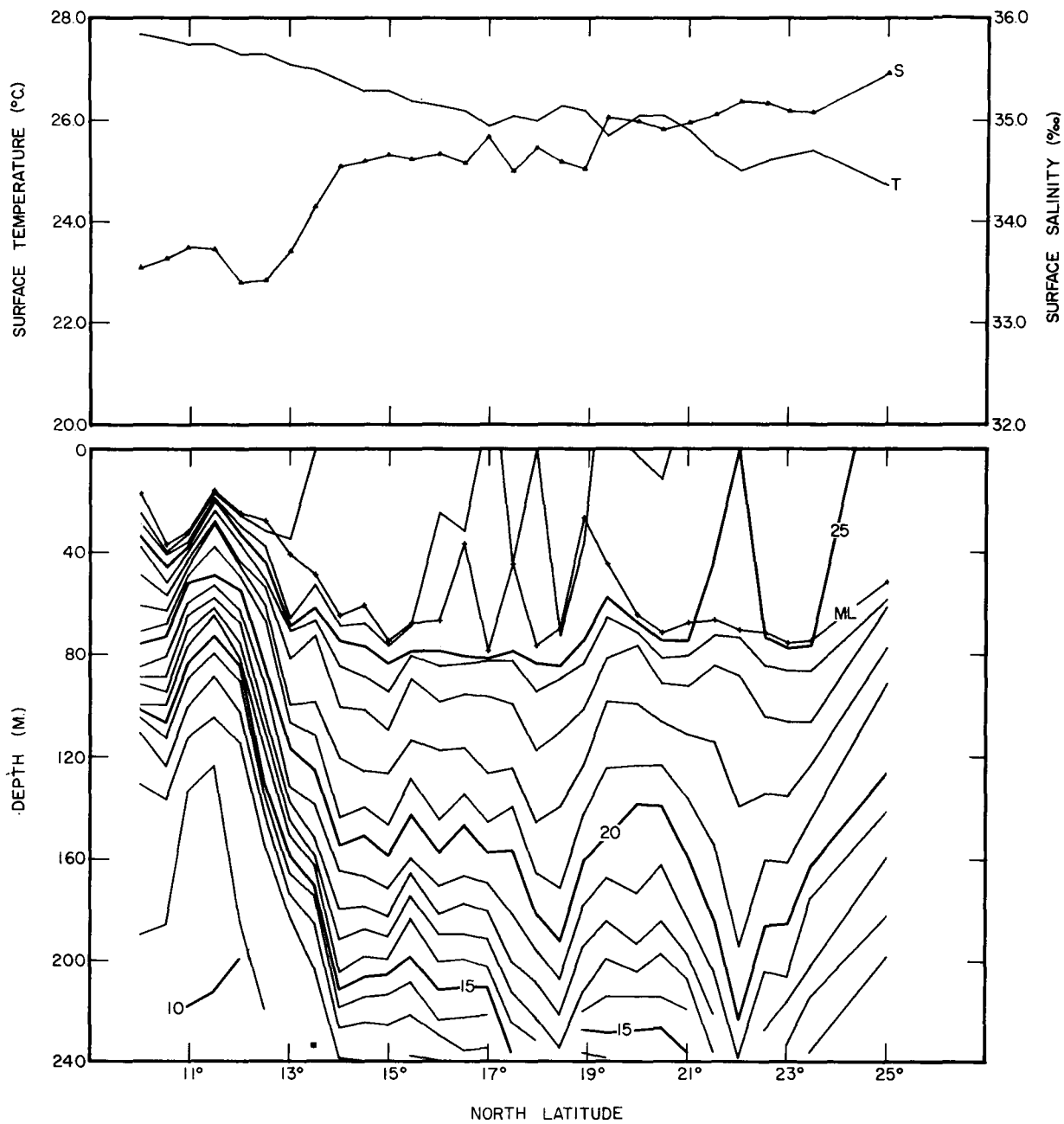


Figure 10.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 9 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

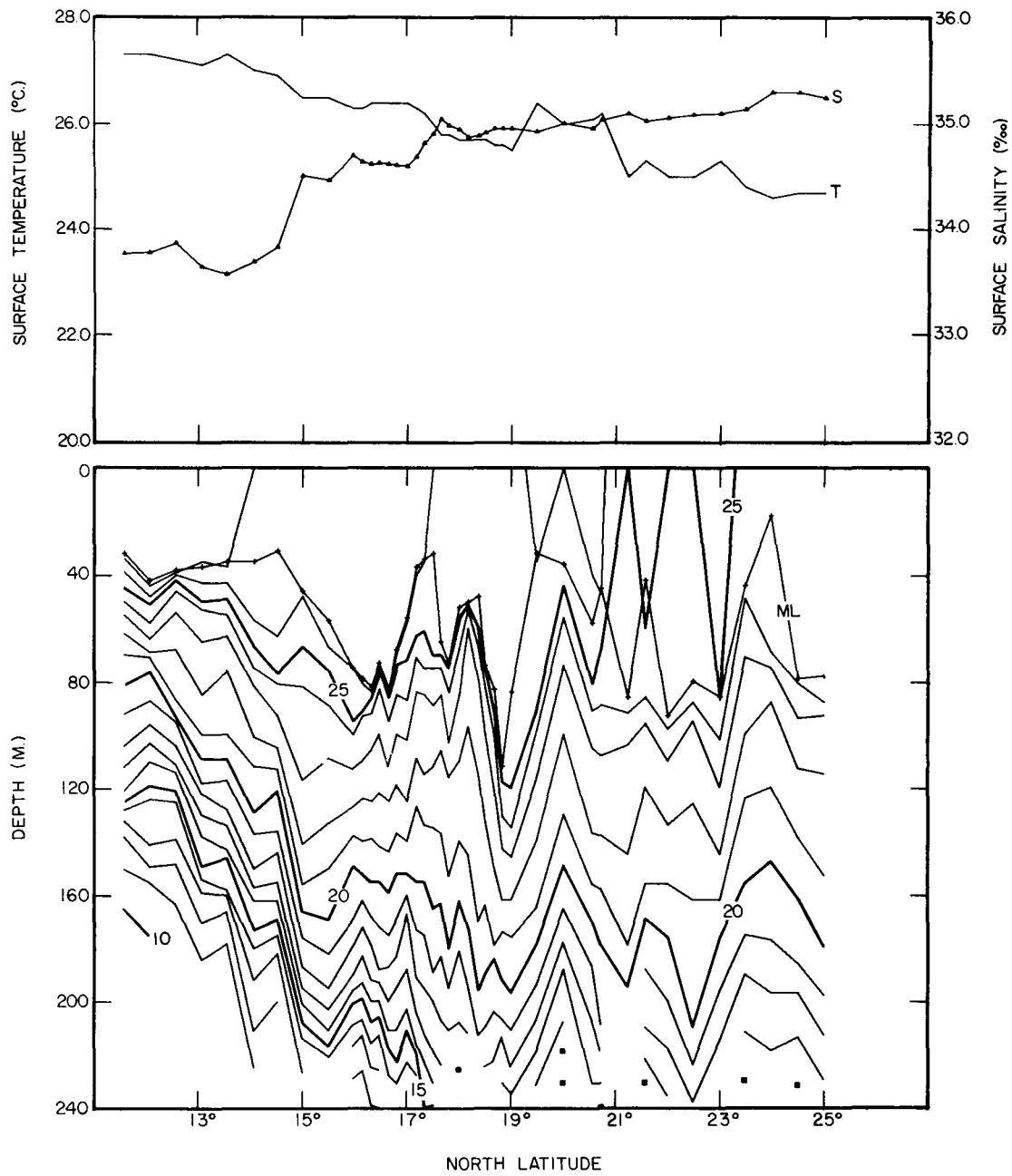


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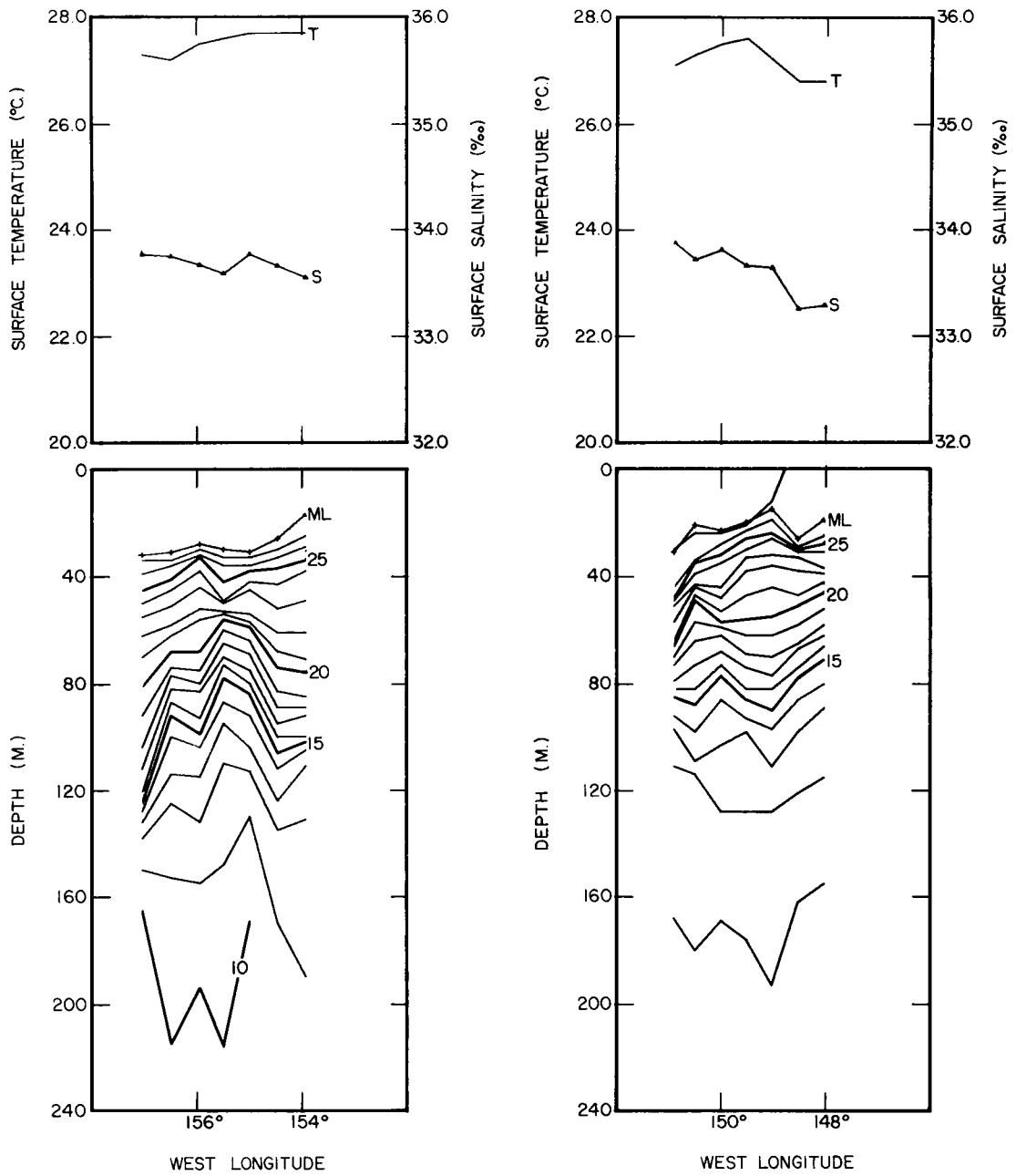


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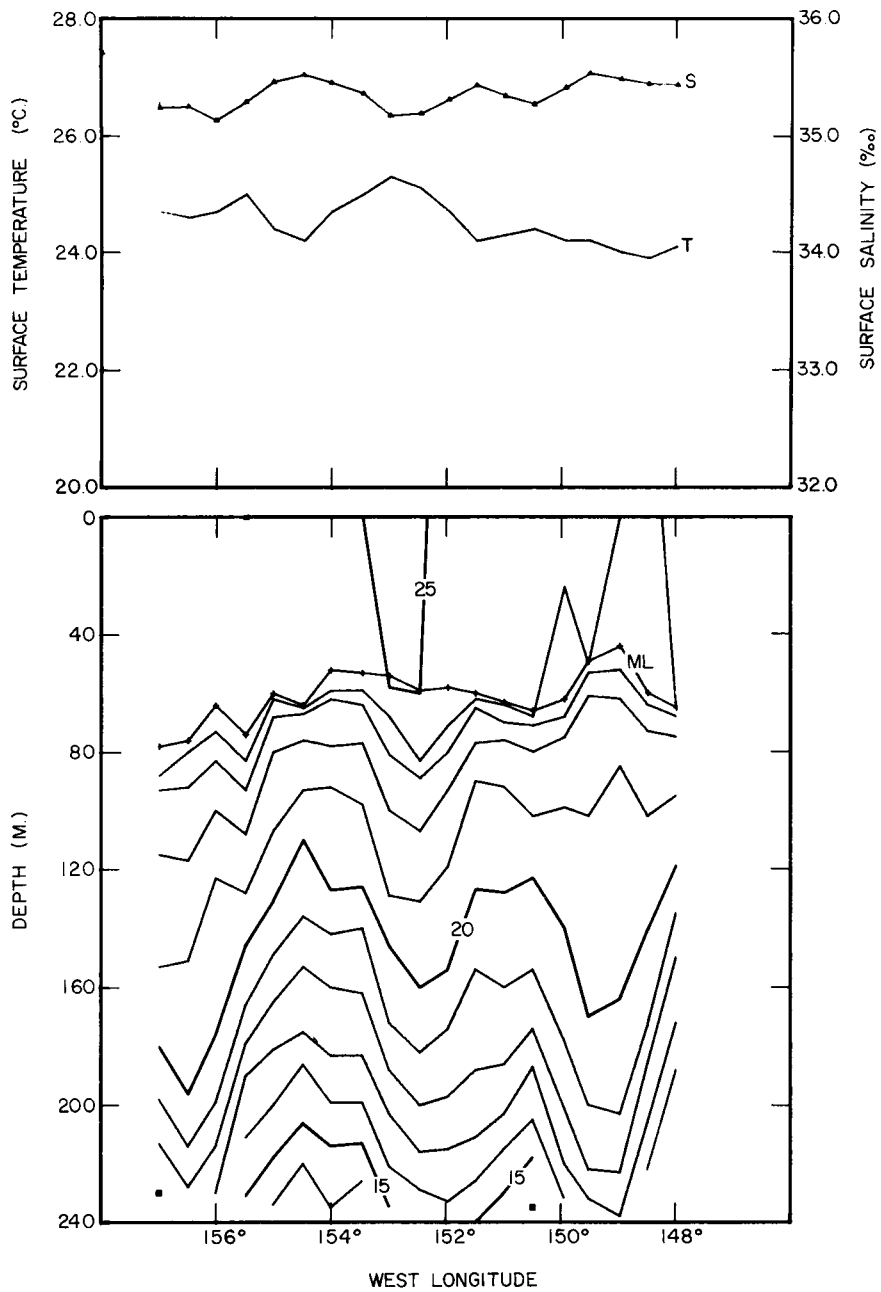


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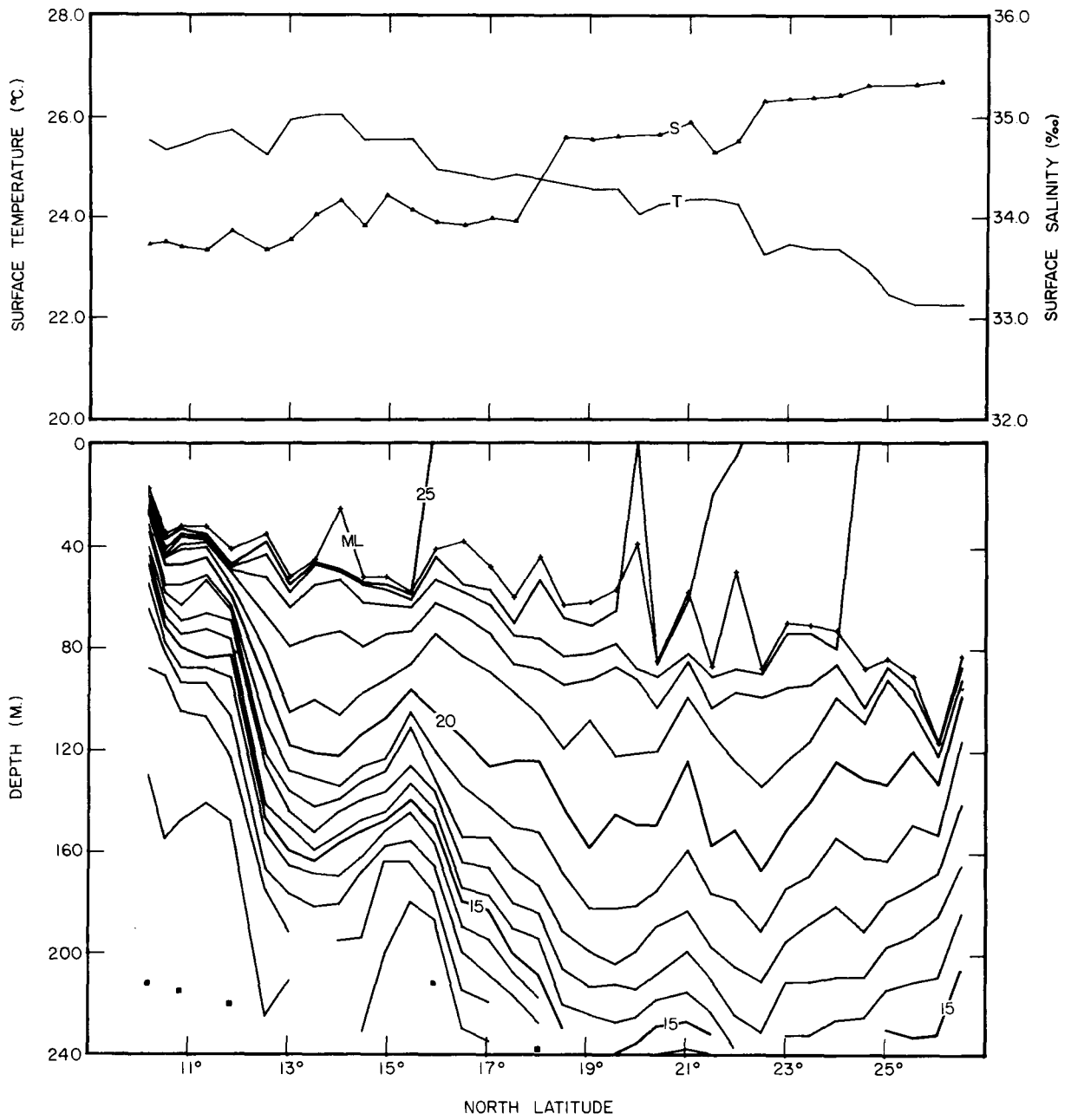


Figure 14.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 10 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

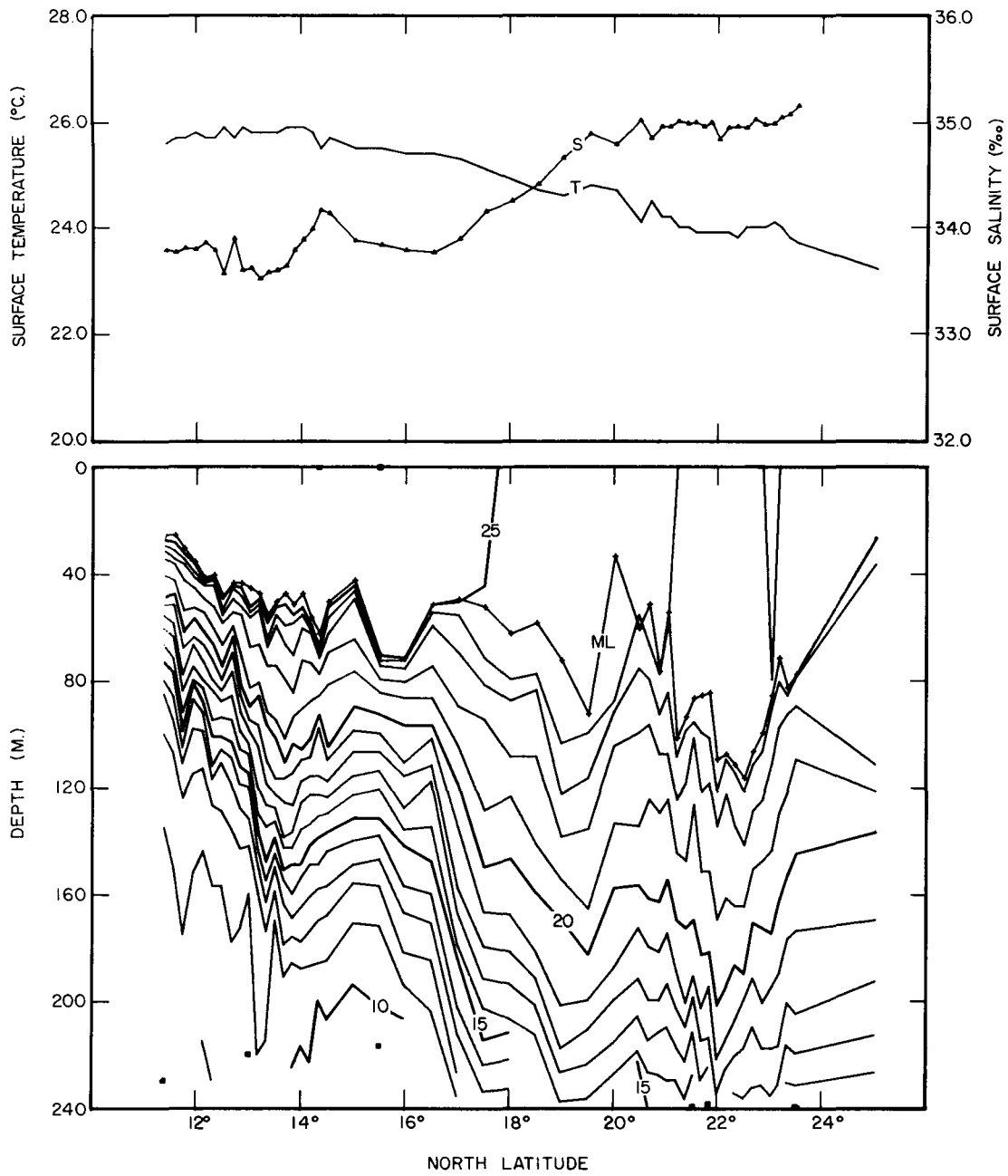


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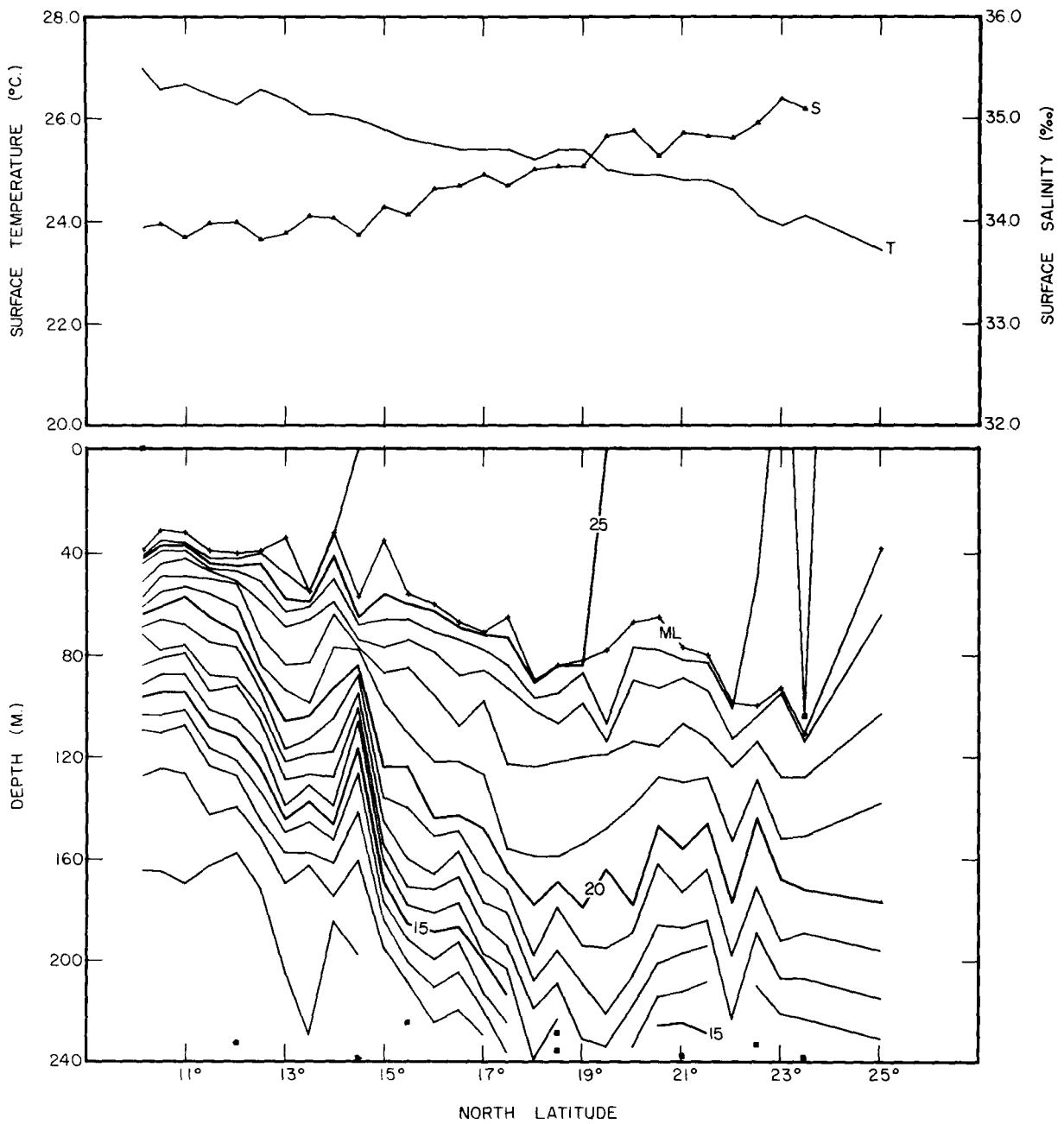


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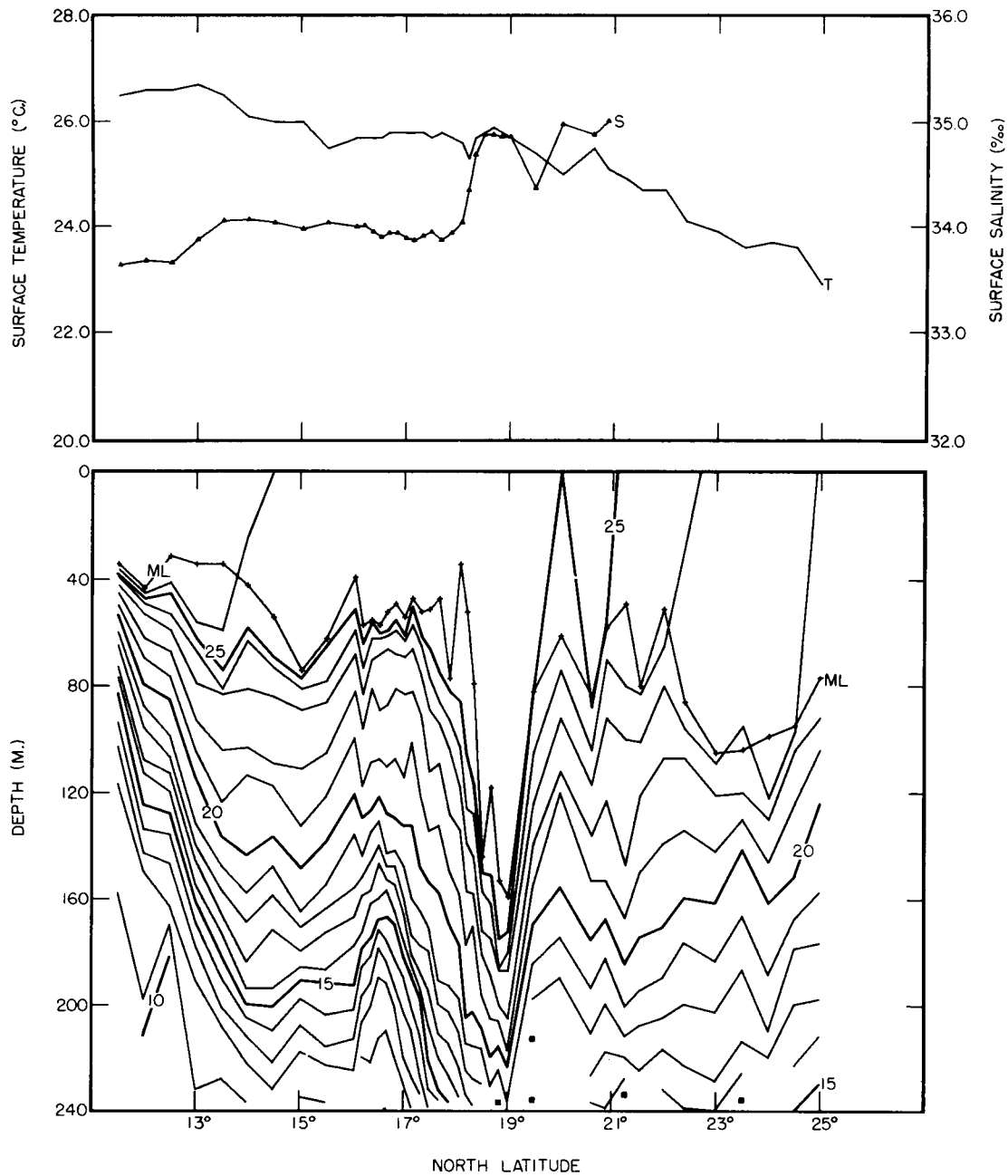


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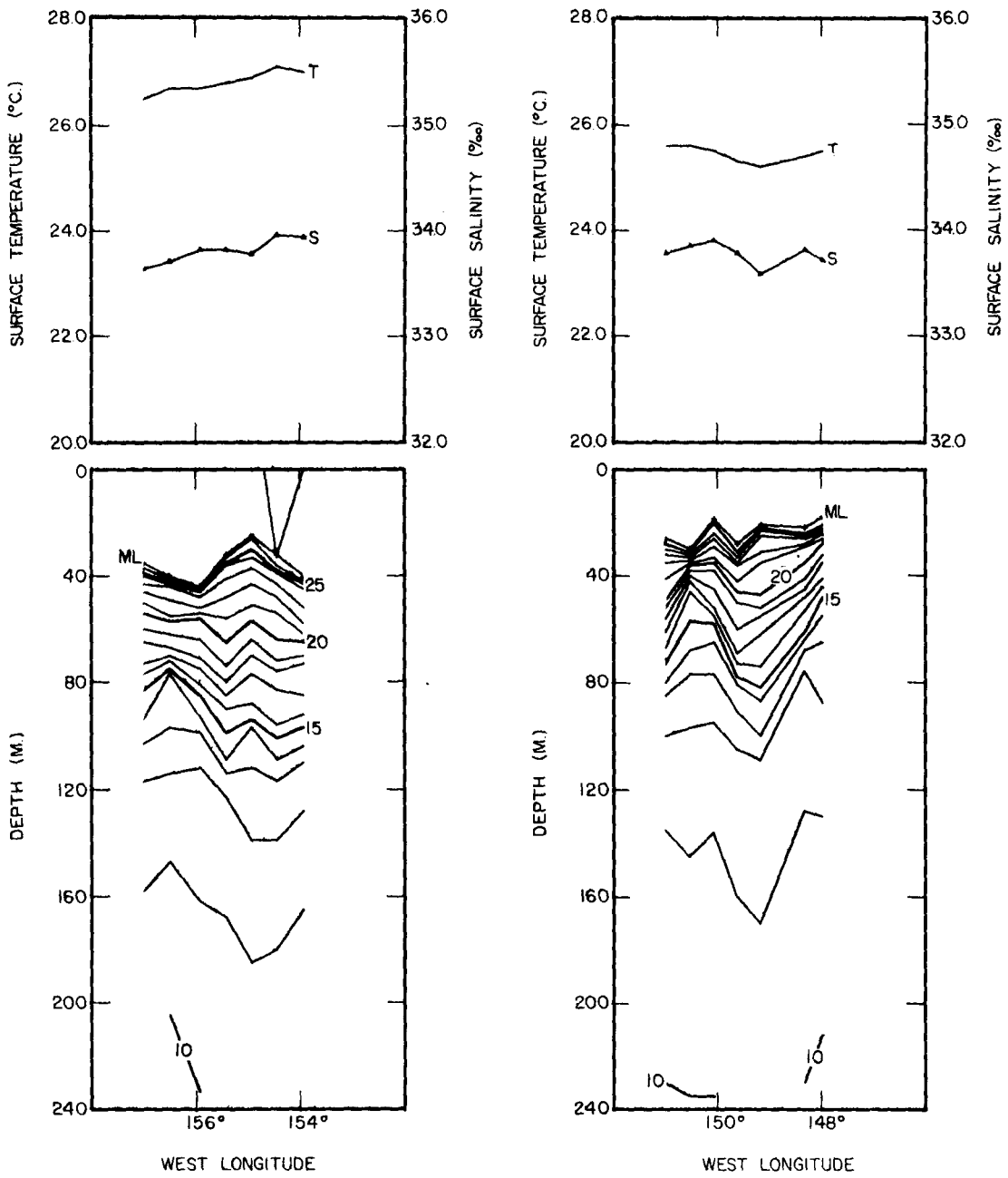


Figure 18.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 10 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

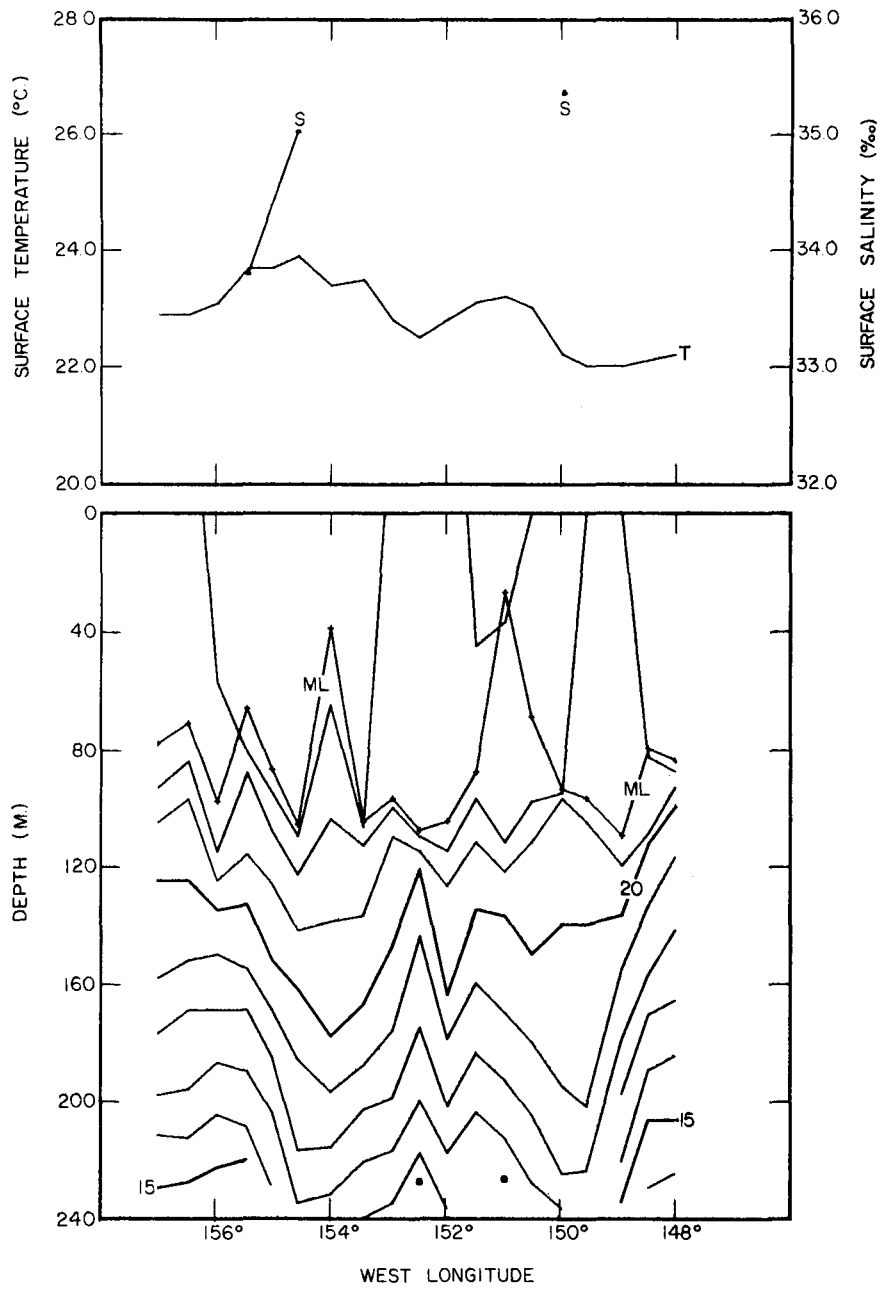


Figure 19.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 10 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

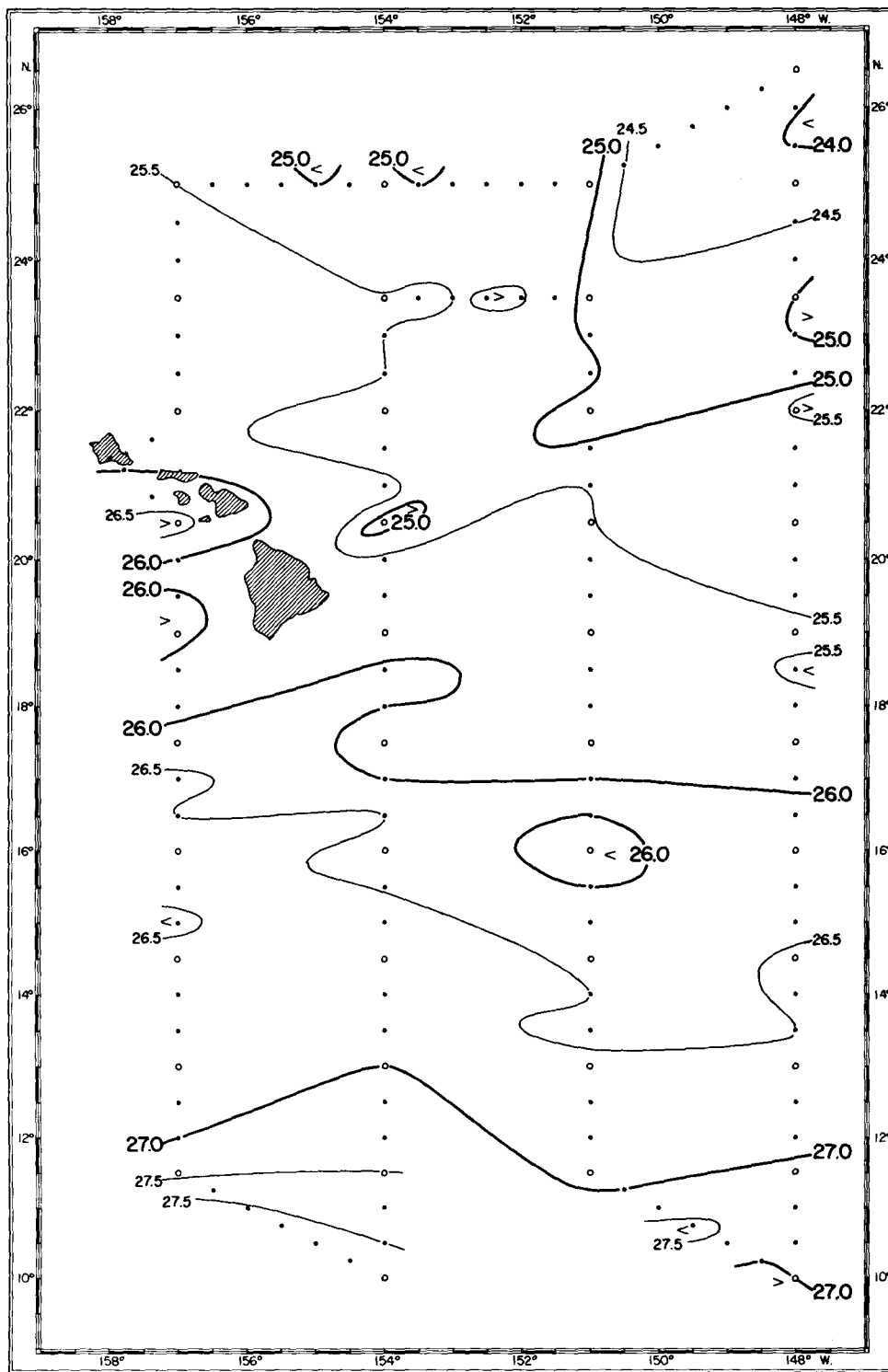


Figure 20.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 8.

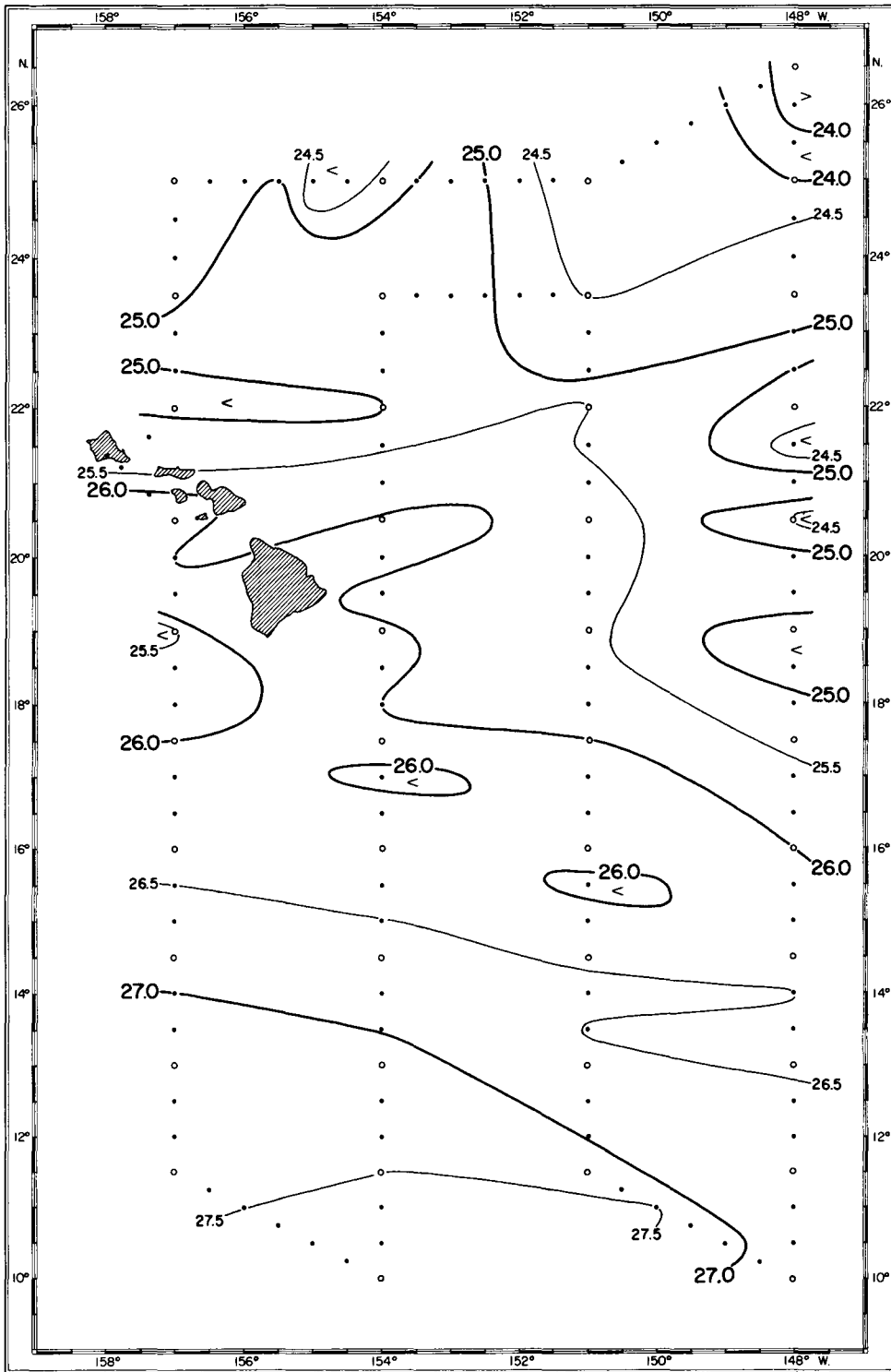


Figure 21.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 9.

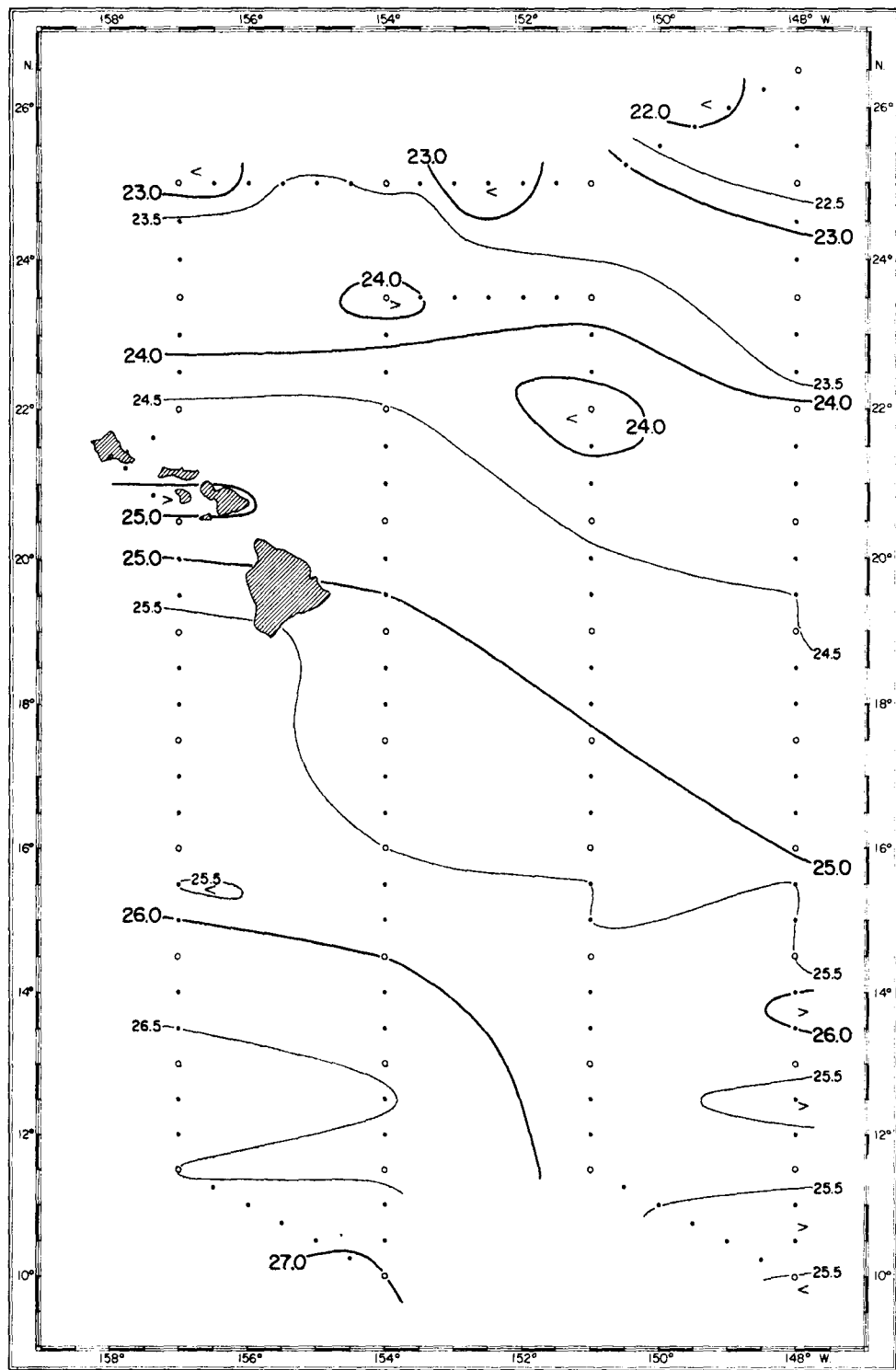


Figure 22.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 10.

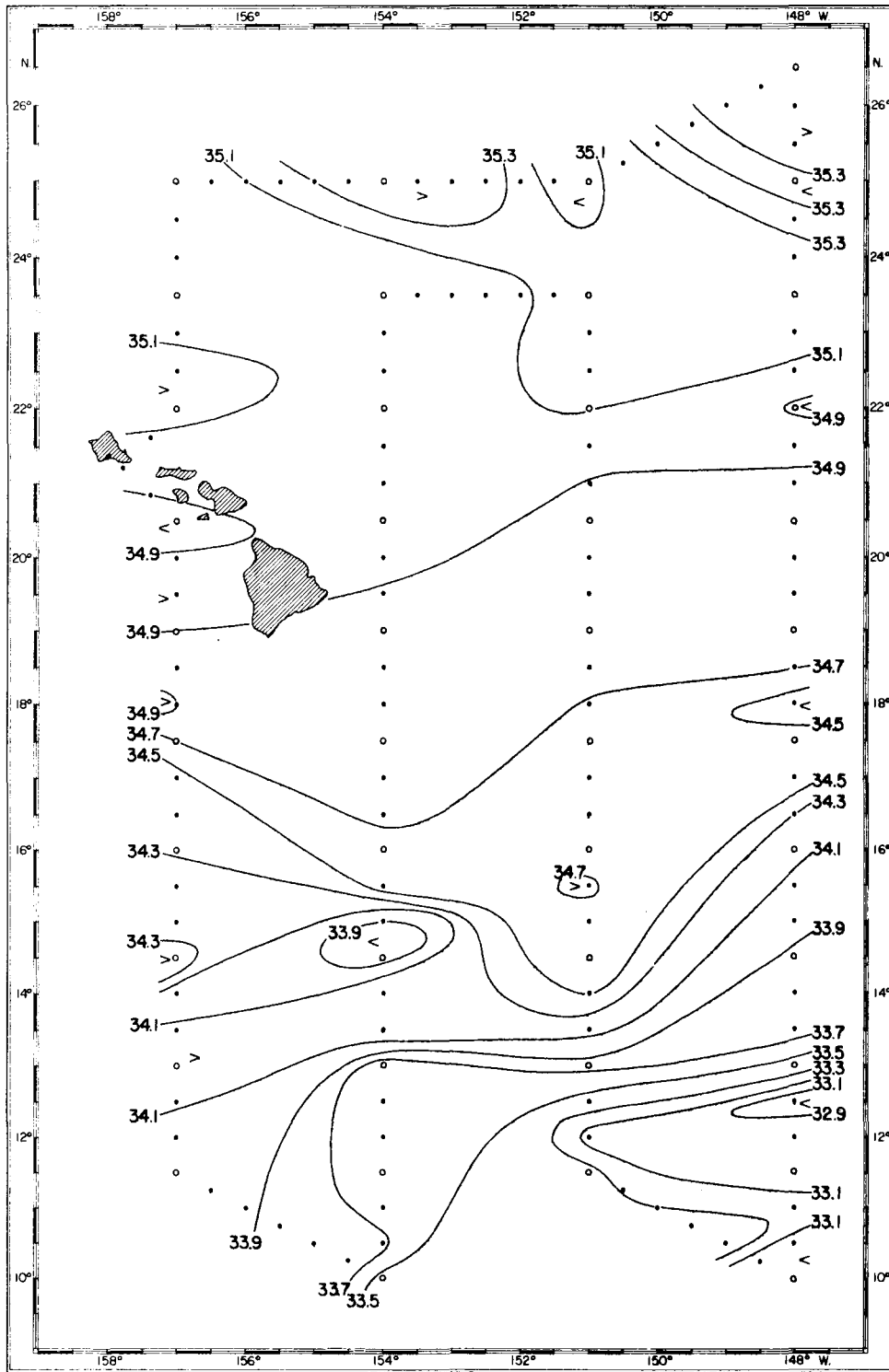


Figure 23.--Surface salinity distribution (‰) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 8.

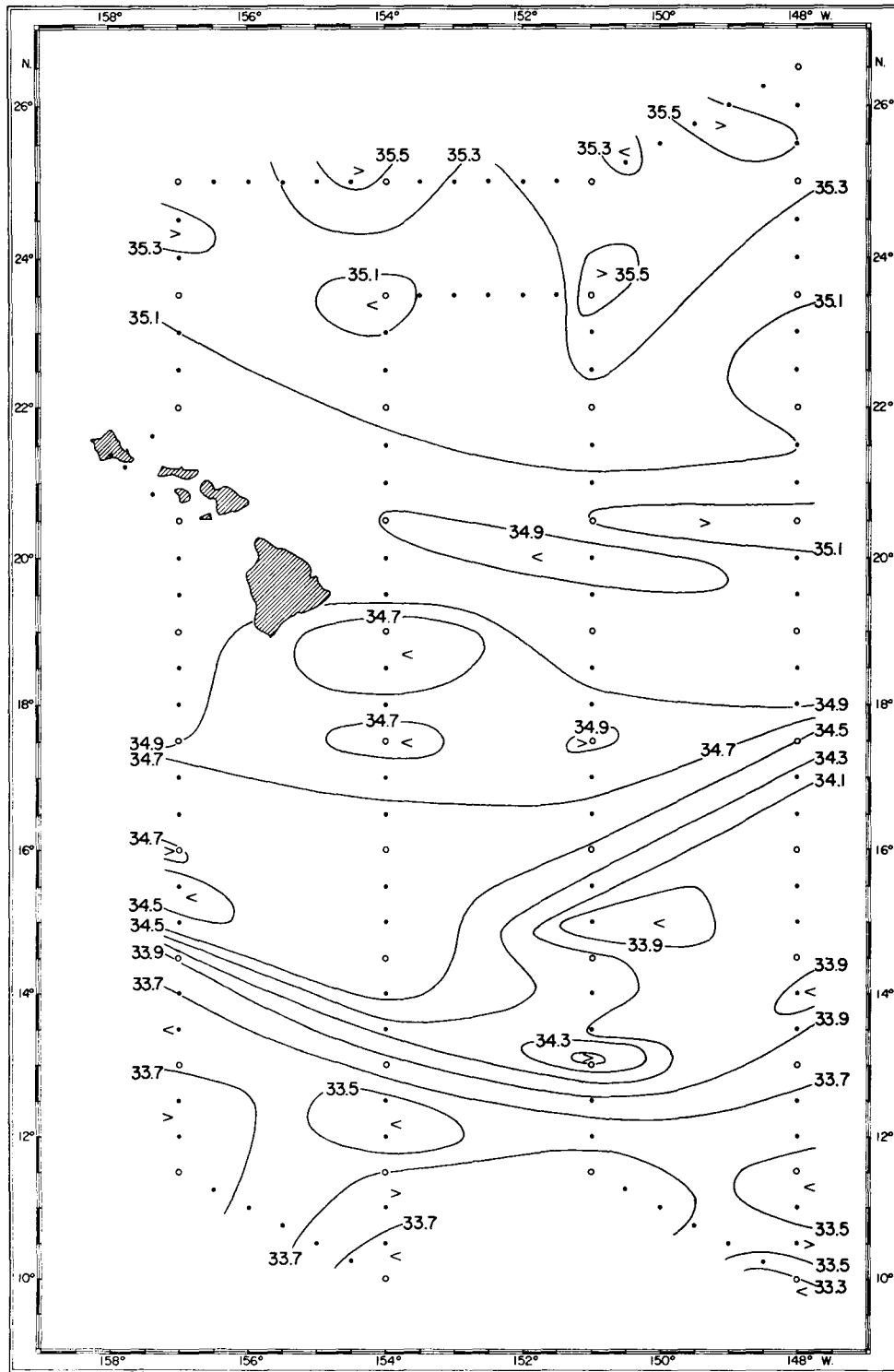


Figure 24.--Surface salinity distribution (‰) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 9.

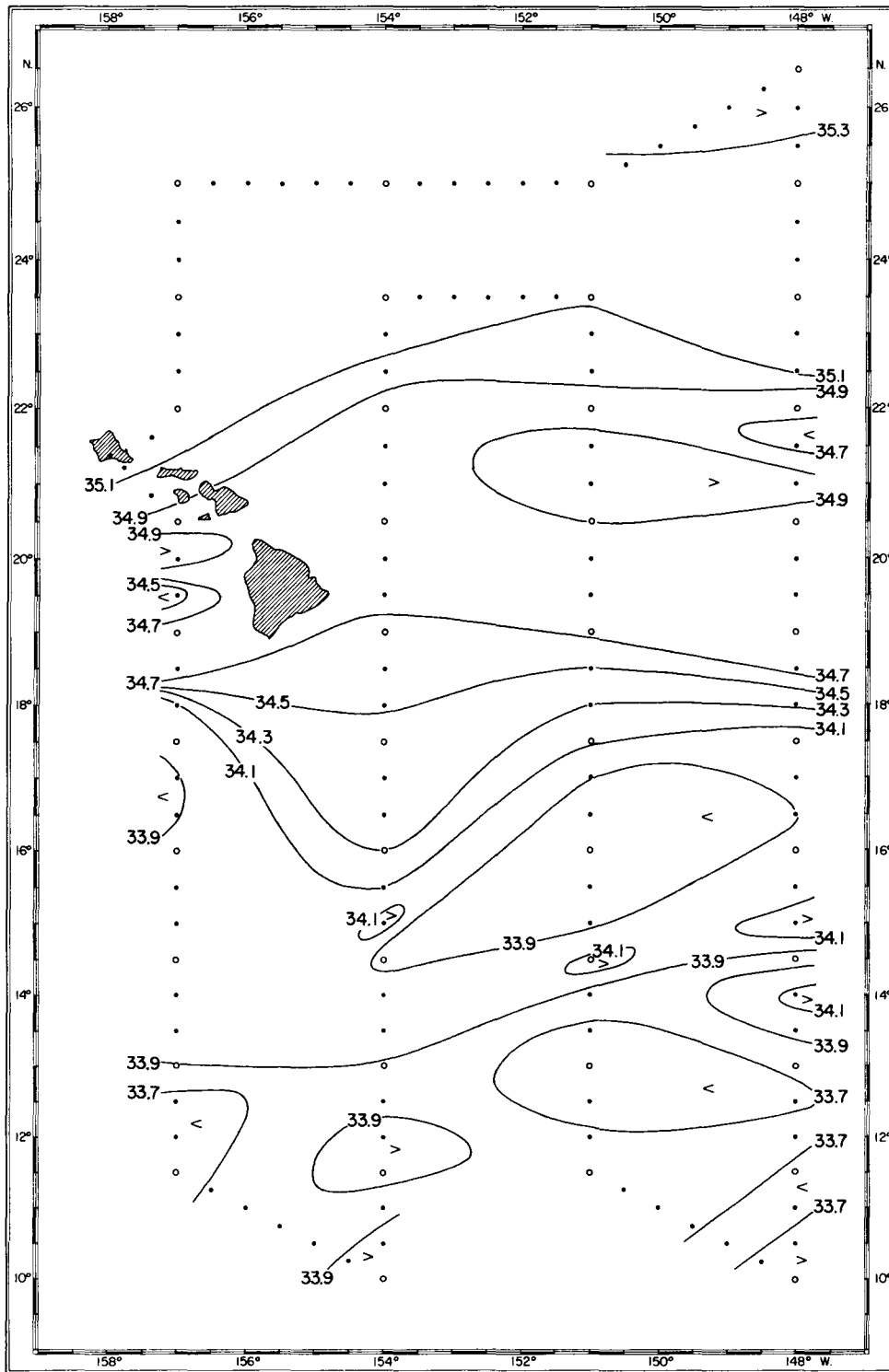


Figure 25.--Surface salinity distribution (‰) from bucket salinity samples at each BT cast for Townsend Crowwell cruise 10.

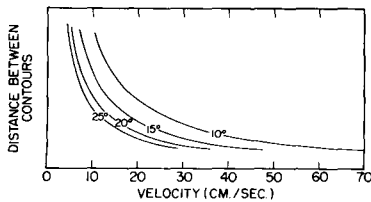
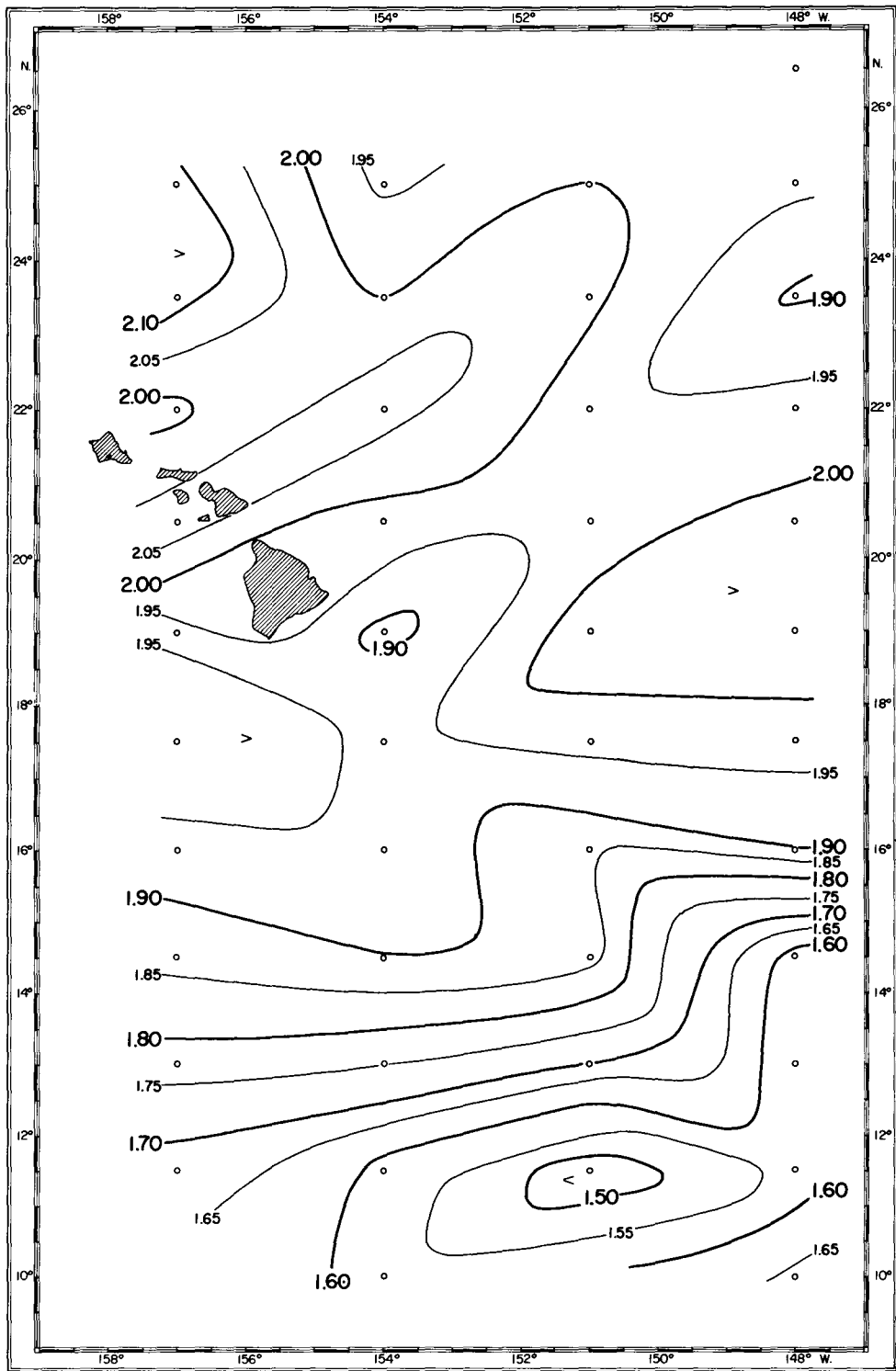


Figure 26.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 8.

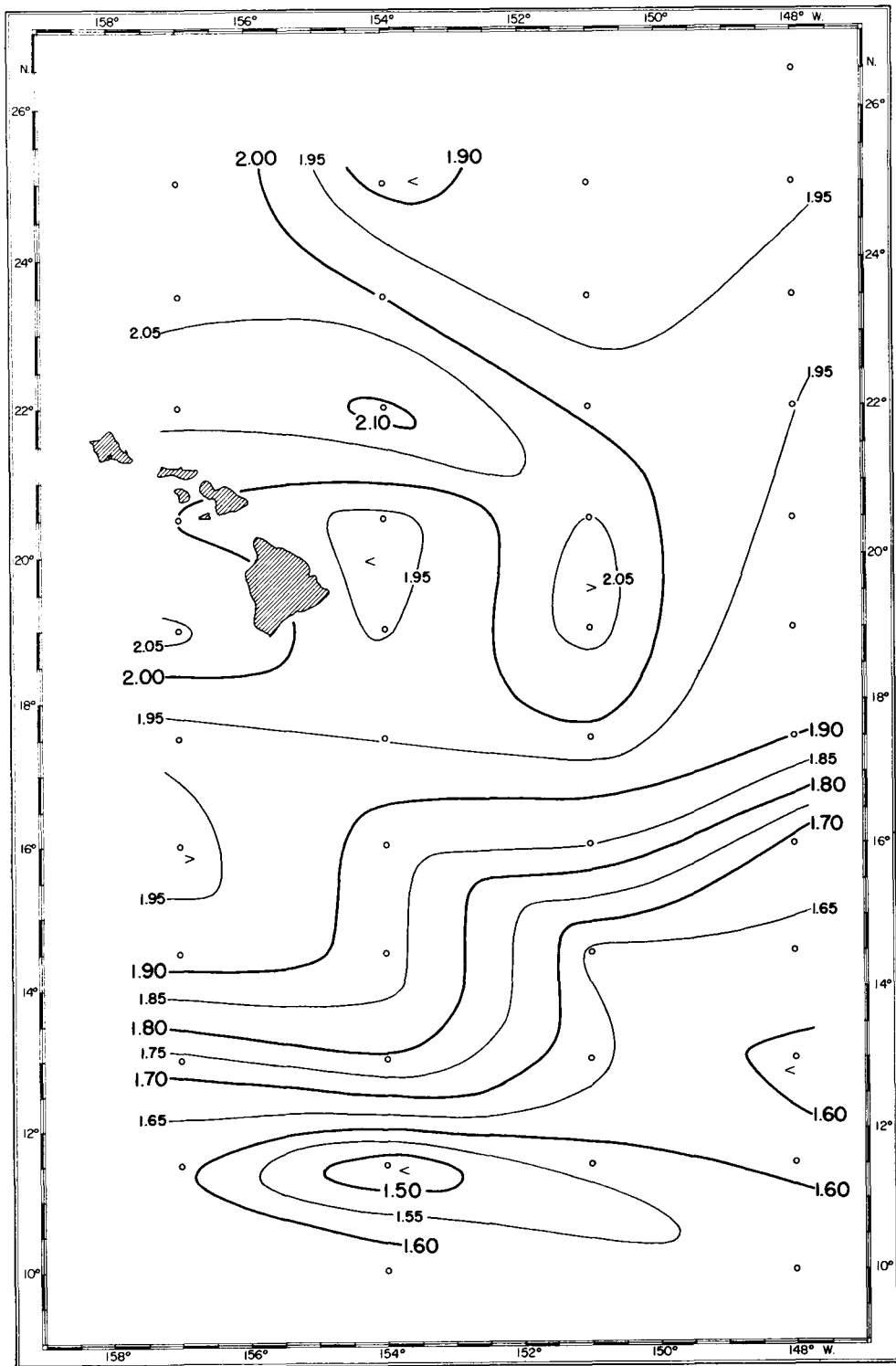
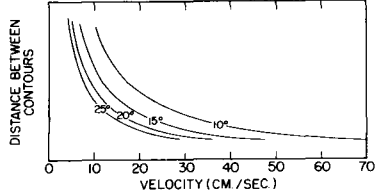


Figure 27.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 9.



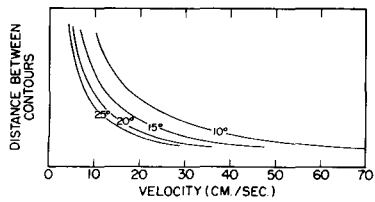
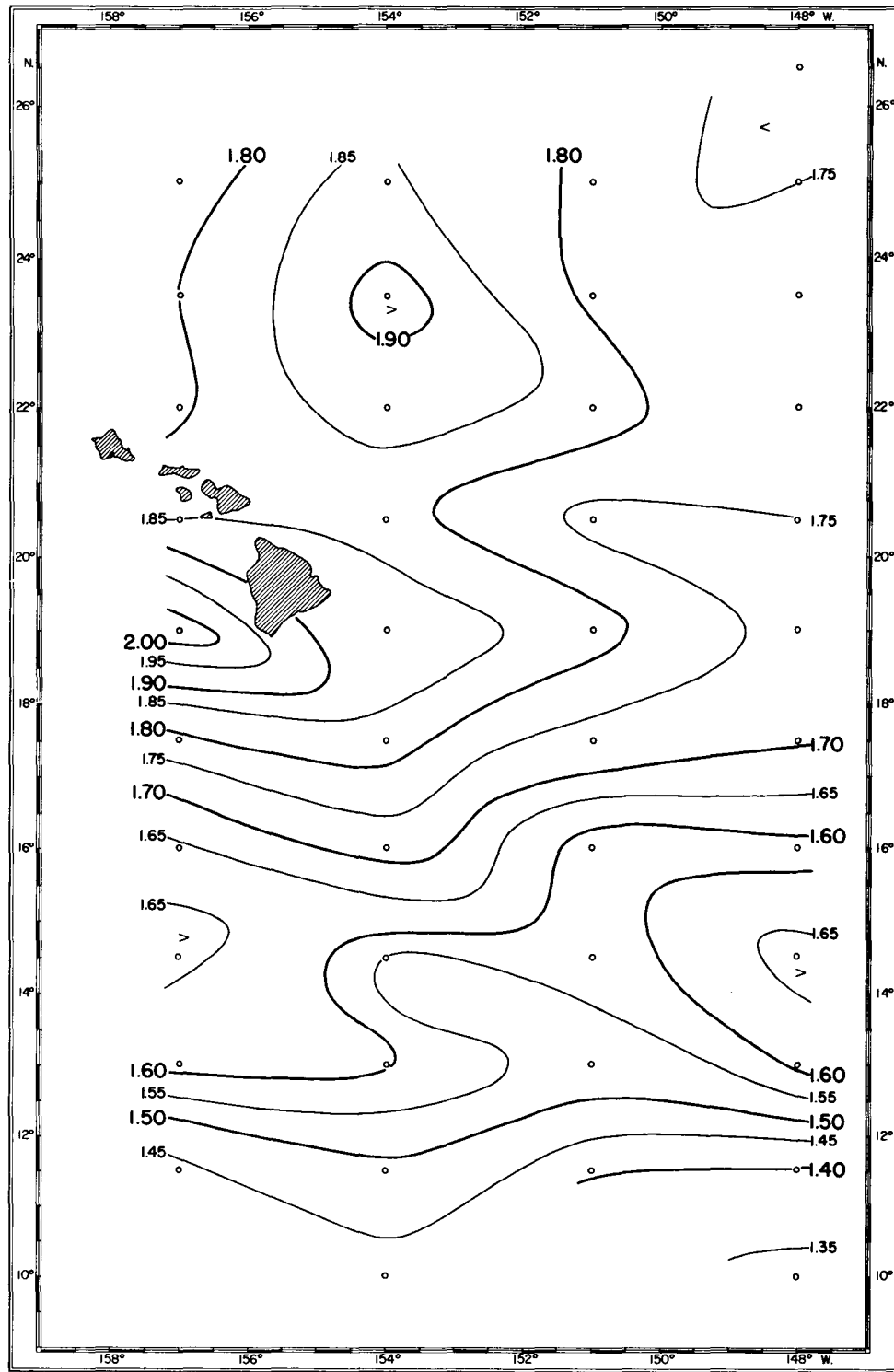


Figure 28.--Dynamic topography (dynamic meters) relative to 1,000 m. for Townsend Cromwell cruise 10.

TABLES

Information printed in the station heading has the following units or coding. Latitude and longitude are in degrees and minutes. Wet and dry bulb temperatures are in degrees Celsius. Wind speed is in knots. Barometric pressure is in tens and units of millibars (initial 9 or 10 omitted). Wind direction, weather, visibility, cloud type, and cloud cover are coded in the manner described by the International Ship Weather Code.

The observed data are presented in the following units: Depth in meters; temperature in degrees Celsius; salinity in grams per kilogram; oxygen in milliliters per liter; and phosphate ($\text{PO}_4\text{-P}$) in microgram-atoms per liter.

The derived data are listed with the following units: Density anomaly as $\sigma\text{-t}$; specific volume anomaly (δ) in 10^5 cubic centimeters per gram; and dynamic depth anomaly (dyn. dpth.) in dynamic meters.

Table 1.--Original and derived oceanographic data for Townsend Cromwell cruise 8

ORIGINAL DATA						DERIVED DATA				INTERPOLATED DATA			
CROMWELL DRY BULB 27.0		8, STATION WET BULB 21.9		1, 20-34N LAT, 157-16W LONG, SEP. WIND SPEED 12, DIR. 06		2, 1964, 0600 G.C.T. BAR. 1c		WEATHER 01		VIS. 9		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.84	34.72			22.58	527.6	0.	26.84	34.72	22.58	527.6	0.000	
10.	26.84	34.84			22.67	519.4	10.	26.84	34.84	22.67	519.4	0.053	
51.	26.14	34.86			22.91	498.5	20.	26.77	34.86	22.71	516.2	0.105	
76.	25.16	35.06			23.36	456.2	30.	26.64	34.87	22.76	511.7	0.157	
102.	23.60	35.12			23.87	408.3	50.	26.17	34.86	22.90	499.2	0.259	
127.	22.44	35.16			24.24	374.4	75.	25.21	35.05	23.34	458.1	0.379	
153.	20.59	35.04			24.65	335.1	100.	23.72	35.12	23.83	411.8	0.489	
178.	18.98	34.92			24.98	304.3	150.	20.82	35.06	24.61	339.5	0.678	
193.	18.12*	34.86			25.15	288.5	200.	17.73	34.82	25.22	282.5	0.835	
226.	16.36	34.66			25.42	263.5	250.	15.19	34.54	25.59	247.5	0.968	
254.	14.97	34.52			25.63	244.4	300.	12.00	34.27	26.04	205.1	1.082	
279.	12.96	34.34			25.91	217.5	400.	8.51	34.15	26.55	156.5	1.265	
304.	11.86	34.26			26.06	203.2	500.	6.74	34.02	26.71	141.7	1.415	
405.	8.38	34.15			26.57	154.7	600.	5.68	34.14	26.93	120.6	1.548	
506.	6.67	34.02			26.71	141.1	700.	5.13	34.30	27.13	102.3	1.660	
607.	5.63	34.15			26.95	119.0	800.	4.82	34.45	27.28	88.7	1.757	
808.	4.80	34.46			27.29	87.8	1000.	4.15	34.52	27.41	77.2	1.925	
1009.	4.12	34.52			27.41	76.9	1200.	3.53	34.56	27.50	68.5	2.072	
1209.	3.50	34.56			27.51	68.2	1500.	2.88	34.59	27.59	60.5	2.269	
1511.	2.86	34.59			27.59	60.3							

CROMWELL DRY BULB 26.0		8, STATION WET BULB 22.3		2, 19-3N LAT, 156-58W LONG, SEP. WIND SPEED 14, DIR. 07		2, 1964, 1700 G.C.T. BAR. 14		WEATHER 03		VIS. 6		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.16	34.88			22.91	495.6	0.	26.16	34.88	22.91	495.6	0.000	
10.	26.14	34.88			22.92	495.4	10.	26.14	34.88	22.92	495.4	0.050	
20.	26.12	34.90			22.94	493.8	20.	26.12	34.90	22.94	493.8	0.100	
30.	26.09	34.92			22.97	491.8	30.	26.09	34.92	22.97	491.8	0.149	
51.	24.43	34.92			23.47	444.2	50.	24.53	34.92	23.44	447.0	0.244	
77.	23.04	35.04			23.97	397.5	75.	23.12	35.03	23.94	400.5	0.351	
101.	22.27	35.09			24.23	373.8	100.	22.30	35.09	24.22	374.8	0.448	
126.	20.85	35.14			24.66	333.6	150.	19.93	35.05	24.84	317.3	0.623	
178.	18.92	34.90			24.98	304.2	200.	17.43	34.77	25.25	279.2	0.773	
192.	18.04	34.83			25.15	288.7	250.	13.87	34.38	25.75	232.0	0.902	
225.	15.43	34.55			25.55	251.1	300.	11.31	34.22	26.13	195.9	1.010	
253.	13.70	34.36			25.77	229.9	400.	7.87	34.16	26.65	146.3	1.182	
279.	12.19	34.25			25.99	209.4	500.	6.29	34.29	26.98	115.8	1.315	
303.	11.20	34.22			26.15	194.1	600.	6.29	34.36	27.11	103.7	1.426	
403.	7.79	34.16			26.67	145.1	700.	5.19	34.36	27.11	103.7	1.426	
505.	6.25	34.30			26.99	114.7	800.	4.83	34.44	27.27	89.7	1.526	
606.	5.62	34.36			27.12	103.3	1000.	4.30	34.52	27.39	79.3	1.791	
806.	4.81	34.44			27.27	89.4	1200.	3.67	34.57	27.50	69.5	1.942	
1006.	4.29	34.52			27.40	79.0	1500.	2.87	34.58	27.58	61.0	2.140	
1206.	3.65	34.57*			27.50	69.2							
1506.	2.85	34.58			27.59	60.9							

TEMPERATURE ERROR TERM AT 150. METERS IS 0.10

CROMWELL DRY BULB 26.2		8, STATION WET BULB 22.9		3, 17-30N LAT, 157-1W LONG, SEP. WIND SPEED 24, DIR. 06		3, 1964, 0400 G.C.T. BAR. 13		WEATHER 01		VIS. 9		CLOUD TYPE 8, COVER 1	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.43	34.68			22.68	518.1	0.	26.43	34.68	22.68	518.1	0.000	
10.	26.45	34.68			22.67	519.1	10.	26.45	34.68	22.67	519.1	0.052	
30.	26.44	34.68			22.68	519.6	20.	26.47	34.67	22.66	520.7	0.105	
50.	26.11	34.81			22.88	501.2	30.	26.44	34.68	22.68	519.6	0.157	
76.	23.89	34.86			23.59	434.1	50.	26.11	34.81	22.88	501.2	0.260	
101.	22.89	35.14			24.09	387.1	75.	23.98	34.86	23.56	436.9	0.378	
126.	22.53	35.16			24.21	376.8	100.	22.91	35.13	24.08	388.5	0.482	
151.	20.89	34.98			24.53	347.1	150.	20.96	34.99	24.51	348.5	0.668	
176.	19.89	35.06			24.86	316.7	200.	17.66	34.76	25.19	285.2	0.827	
192.	18.68	34.88			25.03	300.4	250.	12.33	34.28	25.98	209.5	0.952	
225.	14.37	34.42			25.68	238.3	300.	10.42	34.24	26.30	179.4	1.050	
252.	12.21	34.27			26.00	207.7	400.	8.35	34.34	26.72	140.3	1.211	
278.	11.06	34.22			26.10	191.1	500.	7.97	34.42	26.84	130.5	1.348	
303.	10.35	34.24			26.32	177.9	600.	6.34	34.44	27.09	106.9	1.468	
404.	8.30	34.34			26.73	139.5	700.	5.46	34.46	27.21	95.1	1.570	
505.	7.96*	34.42			26.85	130.2	800.	5.07	34.48	27.28	89.8	1.664	
606.	6.23	34.44			27.10	105.5	1000.	4.41	34.52	27.38	80.5	1.836	
807.	5.06	34.48			27.28	89.6	1200.	3.76	34.54	27.47	72.8	1.991	
1007.	4.39	34.52			27.38	80.3	1500.	3.01	34.58	27.57	62.9	2.198	
1207.	3.74	34.54			27.47	72.5							
1505.	3.00	34.58			27.57	62.7							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.13
TEMPERATURE ERROR TERM AT 700. METERS IS 0.10

ΔFROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 23.0		8, STATION WET BULB 26.2		4, 16- 2N LAT, 157- 1W LCNG, SEP. WIND SPEED 22, DIR. 06		3, 1964, 1400 G.C.T. BAR. 13 WEATHER 02		VIS. 4		CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.74	34.30			22.30	554.8	0.	26.74	34.30	22.30	554.8	0.000
10.	26.77	34.30			22.29	556.1	10.	26.77	34.30	22.29	556.1	0.056
20.	26.73	34.34			22.33	552.4	20.	26.73	34.34	22.33	552.4	0.112
30.Δ	26.50	34.44			22.48	538.7	30.	26.50	34.44	22.48	538.7	0.167
50.Δ	26.50	34.62			22.61	526.5	50.	26.50	34.62	22.61	526.5	0.274
76.	26.32	34.81			22.81	508.5	75.	26.36	34.81	22.80	509.9	0.405
101.	23.12	34.72			23.71	423.7	100.	23.29	34.72	23.66	428.0	0.523
125.	18.89	34.76			24.89	311.7	150.	16.11	34.85	25.40	263.6	0.697
151.	16.02	34.54			25.41	262.4	200.	11.83	34.22	26.04	203.0	0.815
176.	13.18	34.26			25.80	224.9	250.	10.89	34.43	26.37	172.2	0.909
192.	12.19	34.22			25.97	209.5	300.	10.45	34.57	26.56	155.5	0.992
224.	11.12	34.28			26.28	186.5	400.	9.22	34.60	26.79	134.3	1.138
252.	10.89	34.44			26.38	171.4	500.	8.19	34.56	26.92	123.1	1.268
288.	10.73	34.52			26.47	163.5	600.	7.12	34.50	27.03	113.2	1.387
303.	10.38	34.58			26.58	153.4	700.	6.27	34.49	27.14	103.3	1.497
403.	9.20	34.60			26.75	134.4	800.	5.60	34.51	27.24	94.4	1.597
505.	8.14	34.56			26.93	122.6	1000.	4.62	34.52	27.36	82.9	1.776
605.	7.07	34.50			27.04	112.8	1200.	3.85	34.55	27.46	73.3	1.934
805.	5.57	34.51			27.24	94.0						
983.	4.69	34.52			27.35	83.8						
1117.	4.15	34.54			27.43	76.8						
1305.	3.52	34.56			27.51	69.1						

CROMWELL DRY BULB 26.2		8, STATION WET BULB 24.7		5, 14-30N LAT, 157- 1W LCNG, SEP. WIND SPEED 16, DIR. 14		3, 1964, 2400 G.C.T. BAR. 12 WEATHER 51		VIS. 4		CLOUD TYPE 0, COVER 8		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.76	34.40			22.36	548.2	0.	26.76	34.40	22.36	548.2	0.000
10.	26.72	34.31			22.31	553.9	10.	26.72	34.31	22.31	553.9	0.056
30.Δ	26.68	34.36			22.36	549.9	20.	26.70	34.32	22.32	553.2	0.111
50.Δ	26.60	34.40			22.41	545.4	30.	26.68	34.36	22.36	549.9	0.167
72.	24.81	34.61			23.13	478.2	50.	26.60	34.40	22.41	545.4	0.277
96.	22.23	34.85			24.06	389.9	75.	24.49	34.64	23.25	466.7	0.405
120.	20.36	34.98			24.67	332.4	100.	21.91	34.89	24.18	378.8	0.511
144.	18.05	34.82			25.14	288.1	150.	17.68	34.77	25.19	283.3	0.678
167.	16.33	34.59			25.38	266.1	200.	12.75	34.28	25.91	215.6	0.804
181.	14.24	34.40			25.69	235.9	250.	10.17	34.35	26.43	165.8	0.900
212.	12.14	34.26			26.01	206.1	300.	9.84	34.53	26.63	148.2	0.979
237.	10.42	34.25			26.31	176.9	400.	8.37	34.54	26.88	125.3	1.117
260.	10.13	34.43			26.50	159.3	500.	7.30	34.51	27.02	113.4	1.237
283.	10.04	34.50			26.57	153.1	600.	6.48	34.51	27.12	104.0	1.347
375.	8.68	34.55			26.84	129.3	700.	5.84	34.51	27.20	96.5	1.448
467.	7.62	34.52			26.97	117.1	800.	5.33	34.52	27.28	90.0	1.543
553.	6.84	34.51			27.08	108.0	1000.	4.56	34.56	27.39	79.7	1.714
743.	5.61	34.51			27.24	93.8	1200.	3.83	34.57	27.49	71.1	1.867
928.	4.81	34.55			27.36	82.6						
1112.	4.18	34.56			27.44	75.7						
1334.	3.36	34.58			27.54	65.9						

TEMPERATURE ERRCR TERM AT 200. METERS IS 0.14

CROMWELL DRY BULB 26.0		8, STATION WET BULB 24.5		6, 13- 1N LAT, 157- 4W LCNG, SEP. WIND SPEED 18, DIR. 20		4, 1964, 1200 G.C.T. BAR. 12 WEATHER 01		VIS. 8		CLCUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.93	34.18			22.14	569.2	0.	26.93	34.18	22.14	569.2	0.000
11.	26.96	34.19			22.14	569.8	10.	26.96	34.19	22.14	570.2	0.057
31.	26.84	34.46			22.38	547.6	20.	26.93	34.28	22.22	562.5	0.114
50.	26.56	34.82			22.74	514.0	30.	26.85	34.44	22.37	549.2	0.170
77.	22.92	35.02			23.99	395.6	50.	26.56	34.82	22.74	514.0	0.278
102.	21.39	35.04			24.44	354.0	75.	23.22	35.01	23.90	404.2	0.393
127.	19.04	34.91			24.96	304.7	100.	21.49	35.04	24.41	356.4	0.489
153.	16.80	34.65			25.31	271.8	150.	17.08	34.68	25.27	275.6	0.648
192.	11.52	34.24			26.11	195.8	200.	11.03	34.24	26.19	187.7	0.765
226.	10.24	34.31			26.35	169.2	250.	9.98	34.41	26.51	158.1	0.852
253.	9.96	34.42			26.53	157.0	300.	9.12	34.44	26.68	142.6	0.928
279.	9.59	34.46			26.62	148.5	400.	8.03	34.52	26.91	122.4	1.062
304.	9.03	34.44			26.70	141.5	500.	7.00	34.52	27.06	108.6	1.178
404.	8.01	34.52			26.92	121.8	600.	6.16	34.50	27.16	100.0	1.284
506.	6.94*	34.52			27.07	107.9	700.	5.55	34.51	27.25	92.3	1.381
606.	6.12	34.50			27.16	99.6	800.	5.06	34.54	27.32	85.3	1.471
808.	5.03	34.54			27.33	84.8	1000.	4.21	34.56	27.44	75.1	1.633
1008.	4.18	34.56			27.44	74.7	1200.	3.53	34.58	27.52	67.1	1.777
1208.	3.51	34.58			27.52	66.8	1500.	2.81	34.62	27.62	57.6	1.966
1508.	2.80	34.62			27.62	57.4						

ΔFROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 28.4		8, STATIC WET BULB 24.5		7, 11-30N LAT, 157- WIND SPEED 08, DIR. 18		CW LCNG, SEP. BAR. 14		4, 1964, 2300 G.C.T. WEATHER 02		VIS. 8		CLOUD TYPE 2, COVER 6	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	27.32	33.93			21.83	599.1	0.	27.32	33.93	21.83	599.1	0.000	
9.	27.10	33.99			21.95	588.4	10.	27.10	33.99	21.95	588.4	0.060	
30.Δ	26.28	34.17			22.34	551.5	20.	26.88	34.06	22.07	577.0	0.118	
45.	23.94	34.50			23.30	460.3	30.	26.28	34.17	22.34	551.5	0.175	
71.	20.64	34.88			24.52	345.0	50.	23.34	34.62	23.56	435.5	0.275	
93.	16.33	34.54			25.34	267.5	75.	19.86	34.83	24.69	328.7	0.371	
116.	13.22	34.37			25.88	216.1	100.	15.22	34.47	25.54	248.6	0.444	
140.	11.72	34.28			26.10	195.2	150.	11.56	34.38	26.21	185.1	0.553	
163.	11.47	34.53			26.34	172.9	200.	10.68	34.64	26.58	151.5	0.638	
176.	11.16	34.57			26.43	164.8	250.	10.00	34.68	26.72	138.3	0.711	
207.	10.56	34.66			26.61	148.5	300.	9.46	34.65	26.79	133.1	0.779	
232.	10.26	34.68			26.68	142.5	400.	8.51	34.62	26.91	122.3	0.908	
254.	9.94	34.68			26.73	137.6	500.	7.56	34.53	26.99	116.3	1.029	
277.	9.70	34.66			26.76	135.6	600.	6.64	34.45	27.06	110.0	1.143	
367.	8.78	34.62			26.88	125.6	700.	6.05	34.51	27.18	99.2	1.249	
459.	8.01	34.59			26.97	117.6	800.	5.50	34.54	27.28	90.6	1.344	
549.	7.02	34.45			27.00	114.9	1000.	4.51	34.55	27.39	79.6	1.517	
732.	5.90	34.54			27.22	95.3	1200.	3.75	34.57	27.49	70.5	1.669	
915.	4.89	34.54			27.35	84.2							
1103.	4.10	34.56			27.45	74.6							
1394.	3.24	34.60			27.57	63.4							

TEMPERATURE ERROR TERM AT 20. METERS IS 0.10

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 25.9		8, STATIC WET BULB 23.6		7A, 9-59N LAT, 153-59W WIND SPEED 06, DIR. 14		LCNG, SEP. BAR. 13		5, 1964, 1800 G.C.T. WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	27.19	33.52	4.40	0.87	21.57	624.6	0.	27.19	33.52	21.57	624.6	0.000	
10.	27.36	33.78	4.28		21.71	611.5	10.	27.36	33.78	21.71	611.5	0.062	
20.	27.20	33.85			21.81	602.0	20.	27.20	33.85	21.81	602.0	0.123	
30.	27.08	33.88			21.87	596.6	30.	27.08	33.88	21.87	596.6	0.184	
50.	21.05	34.54	4.33	0.54	24.15	379.4	50.	21.05	34.54	24.15	379.4	0.282	
76.	14.76	34.44	3.42	1.07	25.61	240.7	75.	14.95	34.45	25.58	243.7	0.361	
101.	12.37	34.44	1.45	2.19	26.10	194.4	100.	12.42	34.44	26.09	195.5	0.416	
125.	11.59	34.70	0.27	2.59	26.45	161.7	150.	11.06	34.70	26.55	152.6	0.504	
151.	11.04	34.70	0.23	2.65	26.55	152.5	200.	10.37	34.71	26.68	141.3	0.578	
175.	10.66	34.70	0.20	2.61	26.62	146.5	250.	9.93	34.70	26.75	135.8	0.647	
190.	10.47	34.71	0.17	2.79	26.66	142.9	300.	9.53	34.70	26.82	130.3	0.715	
224.	10.17	34.71	0.20	2.26	26.72	138.6	400.	8.54	34.63	26.92	121.7	0.842	
251.	9.92	34.70	0.31	2.52	26.75	135.7	500.	7.57	34.59	27.04	111.7	0.960	
276.	9.68	34.68	0.32	2.42	26.78	133.8	600.	6.64	34.55	27.14	102.8	1.068	
300.	9.53	34.70	0.39	2.73	26.82	130.3	700.	5.91	34.54	27.22	94.9	1.168	
400.	8.94	34.63	0.37	3.04	26.92	121.7	800.	5.33	34.55	27.30	87.9	1.260	
502.	7.95	34.59	0.35	2.46	27.04	111.5	1000.	4.41	34.57	27.42	76.8	1.427	
603.	6.61	34.55	0.56	2.66	27.14	102.5	1200.	3.73	34.59	27.51	68.7	1.574	
802.	5.32	34.55	0.62	2.57	27.30	87.7							
1001.	4.41	34.57	0.94	2.76	27.42	76.8							
1200.	3.73	34.59	1.34	3.22	27.51	68.7							
1499.	2.99	34.62	1.65	2.56	27.60	59.6							

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 27.2		8, STATIC WET BULB 23.8		8, 11-35N LAT, 154- WIND SPEED 10, DIR. 03		CW LCNG, SEP. BAR. 12		6, 1964, 0300 G.C.T. WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	27.48	33.66			21.58	623.5	0.	27.48	33.66	21.58	623.5	0.000	
10.	27.14	33.69	4.33	0.31	21.71	611.3	10.	27.14	33.69	21.71	611.3	0.062	
20.	26.92	33.75			21.82	600.6	20.	26.92	33.75	21.82	600.6	0.123	
30.	26.74	33.77			21.90	594.1	30.	26.74	33.77	21.90	594.1	0.183	
51.	25.18	34.47	4.57	0.40	22.91	498.2	50.	25.36	34.43	22.83	505.9	0.294	
67.	19.00	34.56	4.09	1.12	24.70	327.1	75.	17.17	34.57	25.17	283.3	0.394	
77.	16.78	34.57	3.65	0.84	25.26	274.8	100.	12.63	34.31	25.95	208.0	0.456	
92.	13.48	34.37	2.27	1.63	25.75	224.4	150.	11.31	34.65	26.46	161.1	0.549	
102.	12.42	34.30	2.32	1.78	25.98	205.6	200.	10.62	34.71	26.63	146.1	0.626	
117.	11.32	34.28	2.56	1.79	26.18	187.6	250.	9.81	34.65	26.73	137.2	0.698	
127.	11.02	34.30	2.24	2.16	26.25	181.1	300.	9.09	34.62	26.82	129.3	0.765	
153.	11.38	34.70	0.19	2.43	26.49	158.6	400.	8.02	34.56	26.95	118.6	0.890	
192.	10.76	34.71	0.22	2.67	26.61	147.9	500.	6.83	34.52	27.09	106.1	1.003	
253.	9.76	34.65	0.25	2.72	26.74	136.8	600.	6.03	34.52	27.19	96.8	1.106	
278.	9.40	34.62	0.31	2.34	26.78	133.7	700.	5.38	34.53	27.28	88.7	1.200	
304.	9.04	34.62	0.28	2.47	26.83	128.4	800.	4.85	34.55	27.36	81.8	1.286	
405.	7.97	34.56	0.34	2.64	26.95	118.3	1000.	4.11	34.57	27.45	73.1	1.442	
506.	6.76	34.52	0.39	2.87	27.09	105.4	1200.	3.42	34.59	27.54	64.8	1.582	
606.	5.99	34.52	0.47	3.01	27.20	96.3							
808.	4.81	34.55	0.77	2.88	27.36	81.3							
1009.	4.08	34.57	1.07	3.06	27.46	72.8							
1174.	3.45	34.59	1.39	3.15	27.54	65.1							
1421.	2.88	34.62	1.70	2.65	27.61	57.8							

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 26.3		8, STATION WET BULB 23.2	9, 13- 3N LAT, 154-10W LCNG, SEP.	6, 1964, 1200 G.C.T.	BAR. 13	WEATHER 02	VIS. 8	CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	27.15	33.59			21.63	618.4	0.	27.15	33.59	21.63	618.4	0.000
1C.	27.15	33.59	4.21	0.45	21.63	618.0	10.	27.15	33.59	21.63	618.0	0.062
30.	26.30	34.03			22.23	562.2	20.	26.86	33.77	21.86	597.1	0.124
52.	24.14	34.50	4.63	0.72	23.24	466.2	30.	26.30	34.03	22.23	562.2	0.182
68.	22.38	34.66	4.92	0.36	23.87	406.6	50.	24.37	34.46	23.15	475.3	0.286
78.	21.6P	34.72	4.73	0.44	24.11	383.9	75.	21.88	34.70	24.05	390.4	0.395
92.	20.42	34.81	4.34	0.47	24.54	343.7	100.	19.62	34.81	24.74	325.1	0.486
102.	19.39	34.80	4.21	0.63	24.79	320.4	150.	12.70	34.31	25.93	211.7	0.621
117.	16.74	34.54	3.45	1.76	25.24	277.4	200.	11.09	34.63	26.49	159.4	0.714
127.	15.46	34.44	3.44	1.35	25.46	256.9	250.	10.55	34.68	26.62	148.1	0.792
154.	12.31	34.30	2.06	2.39	26.01	204.9	300.	9.88	34.65	26.72	139.6	0.864
193.	11.19	34.61	0.51	2.69	26.46	162.8	400.	8.65	34.59	26.88	126.1	0.998
254.	10.52	34.67	0.19	2.59	26.62	148.1	500.	7.57	34.54	27.00	115.2	1.120
280.	10.15	34.66	0.14	2.75	26.68	143.1	600.	6.69	34.52	27.11	105.7	1.232
305.	9.81	34.65	0.23	2.74	26.73	138.7	700.	5.97	34.52	27.20	97.0	1.334
405.	8.59	34.59	0.43	3.02	26.88	125.5	800.	5.38	34.54	27.29	89.4	1.429
506.	7.51	34.54	0.49	3.25	27.01	114.7	1000.	4.44	34.56	27.41	77.9	1.598
607.	6.63	34.52	0.47	3.16	27.11	105.1	1200.	3.79	34.58	27.50	70.2	1.748
808.	5.34	34.54	0.65	2.68	27.29	88.8	1500.	3.00	34.60	27.59	61.3	1.948
1009.	4.40	34.56	1.06	2.88	27.42	77.5						
1210.	3.76	34.58	1.40		27.50	69.9						
1510.	2.98	34.60	1.65	2.98	27.55	61.0						

CROMWELL DRY BULB 26.7		8, STATION WET BULB 23.3	10, 14-30N LAT, 154-5W LCNG, SEP.	6, 1964, 2000 G.C.T.	BAR. 15	WEATHER 02	VIS. 8	CLOUD TYPE 1, COVER 1				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
C.	26.80	33.84	4.59	0.28	21.93	589.7	0.	26.80	33.84	21.93	589.7	0.000
1C.	26.72	33.83	4.71	0.41	21.95	588.4	10.	26.72	33.83	21.95	588.4	0.059
30.	26.64	33.84			21.58	586.1	20.	26.67	33.83	21.97	587.1	0.119
50.	26.60	33.85			22.00	584.9	30.	26.64	33.84	21.98	586.1	0.178
77.	23.9P	34.48	4.87	0.73	23.28	464.1	50.	26.60	33.85	22.00	584.9	0.296
102.	21.43	34.74	4.93	0.39	24.20	376.7	75.	24.23	34.43	23.16	474.8	0.429
127.	20.2R	35.02	4.58	0.44	24.72	327.7	100.	21.61	34.72	24.14	382.5	0.537
152.	16.61	34.60	5.04	0.79	25.32	271.2	150.	16.94	34.64	25.27	275.3	0.703
177.	13.60	34.34	2.73	1.69	25.78	227.3	200.	11.95	34.36	26.12	194.7	0.821
192.	12.37	34.32	2.19	2.07	26.01	205.5	250.	10.85	34.58	26.49	160.6	0.911
226.	11.17	34.54	0.79	2.57	26.41	168.3	300.	10.61	34.68	26.62	149.8	0.989
253.	10.84	34.5R	0.68	2.75	26.50	160.2	400.	8.85	34.57	26.82	131.4	1.131
279.	10.95	34.68	0.32	2.70	26.55	155.4	500.	7.85	34.56	26.97	118.1	1.257
304.	10.53	34.68	0.23	2.25	26.63	148.7	600.	7.00	34.53	27.07	109.3	1.372
404.	8.79	34.56	0.42	2.52	26.83	130.8	700.	6.21	34.52	27.17	100.3	1.478
506.	7.80*	34.56	0.38	3.00	26.98	117.5	800.	5.53	34.53	27.26	92.0	1.575
606.	6.95	34.53	0.63	3.00	27.08	108.9	1000.	4.61	34.55	27.38	80.8	1.750
808.	5.48	34.53	0.66	3.09	27.27	91.4	1200.	3.90	34.57	27.48	72.3	1.905
1008.	4.58	34.59	0.82	2.75	27.39	80.5	1500.	3.04	34.60	27.58	61.8	2.109
1209.	3.87	34.57	1.21	3.29	27.48	71.9						
1509.	3.02	34.60	1.62	2.83	27.59	61.5						

CROMWELL DRY BULB 26.3		8, STATION WET BULB 23.6	11, 16- 0N LAT, 153-58W LONG, SEP.	7, 1964, 0500 G.C.T.	BAR. 13	WEATHER 03	VIS. 8	CLOUD TYPE 8, COVER 4				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
C.	26.37	34.68	4.52		22.70	516.3	0.	26.37	34.68	22.70	516.3	0.000
9.	26.32	34.68	4.62		22.71	515.2	10.	26.31	34.68	22.72	515.0	0.052
30.	26.20	34.68			22.75	512.4	20.	26.26	34.68	22.73	513.0	0.104
50.	26.06	34.68			22.75	509.0	30.	26.20	34.68	22.75	512.4	0.155
70.	25.12	34.68	4.74	0.39	23.08	482.1	50.	26.06	34.68	22.79	509.0	0.258
92.	22.95	34.77	4.94	0.43	23.79	415.1	75.	24.64	34.69	23.24	467.3	0.381
116.	21.65	34.92	4.80	0.39	24.27	370.1	100.	22.45	34.82	23.97	398.4	0.490
139.	20.41	35.04	4.48		24.70	330.0	150.	19.85	35.03	24.84	317.3	0.671
162.	19.09	34.95	4.29	0.53	24.98	304.3	200.	15.69	34.54	25.49	256.5	0.815
177.	17.66	34.76	4.04	1.36	25.19	284.4	250.	11.98	34.25	26.03	205.2	0.932
208.	15.03	34.48	3.75	0.70	25.58	247.2	300.	9.72	34.21	26.40	169.8	1.026
232.	12.98	34.29	3.61	1.72	25.87	220.3	400.	7.88	34.35	26.80	132.7	1.179
256.	11.70	34.24	3.54	2.96	26.08	200.6	500.	6.87	34.43	27.01	113.1	1.303
279.	10.46	34.20	3.23	1.58	26.27	182.2	600.	6.12	34.47	27.14	101.6	1.411
370.	8.32	34.31	1.39	3.16	26.70	141.4	700.	5.51	34.49	27.23	93.6	1.510
463.	7.20	34.41	0.68	3.22	26.95	119.1	800.	5.05	34.51	27.30	87.4	1.601
554.	6.45	34.46	0.60	2.51	27.09	106.3	1000.	4.36	34.55	27.41	77.6	1.768
740.	5.30	34.49	0.70	3.22	27.26	91.2	1200.	3.75	34.58	27.50	69.9	1.918
925.	4.62	34.54	0.85	3.03	27.38	80.9						
1110.	4.00	34.56	1.13		27.46	73.4						
1394.	3.25	34.59	1.46	3.10	27.56	64.3						

TEMPERATURE ERROR TERM AT 300. METERS IS 0.10

ΔFROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA					
CRCM WELL		8, STATION	12, 17-31N LAT,	153-58W LCNG,	SEP.	7, 1964,	1500 G.C.T.							
DRY BULB 27.2		WET BULB 24.0	WIND SPEED 21, DIR. C8			BAR. 14	WEATHER 50	VIS. 6	CLCUD TYPE , COVER					
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
C.	26.10	34.84	4.06	0.35	22.90	496.7	C.	26.10	34.84	22.90	496.7	0.000		
10. Δ	26.09	34.84	4.30	0.37	22.91	496.8	10.	26.09	34.84	22.91	496.8	0.050		
30. Δ	26.00	34.84			22.93	494.9	20.	26.06	34.84	22.91	496.4	0.100		
50. Δ	25.76	34.85			23.02	487.9	30.	26.00	34.84	22.93	494.9	0.150		
76.	23.76	34.91		0.35	23.66	426.9	50.	25.76	34.85	23.02	487.9	C.249		
101.	22.74	35.06	4.20	0.23	24.07	388.7	75.	23.85	34.91	23.64	429.5	0.365		
126.	21.73	35.08		0.52	24.37	361.0	100.	22.77	35.05	24.06	390.0	0.468		
151.	20.53	35.12	4.01	0.30	24.73	327.7	150.	20.58	35.12	24.72	329.1	0.649		
176.	18.89	34.96	4.74	0.39	25.04	299.1	200.	17.15	34.75	25.31	273.6	C.801		
190.	17.90	34.85		0.48	25.20	283.9	250.	12.24	34.21	25.95	212.6	0.923		
224.	15.06	34.50	4.28	0.63	25.59	246.9	300.	9.81	34.15	26.34	175.8	1.021		
251.	12.14	34.20	4.40	1.08	25.96	211.5	400.	7.40	34.16	26.72	139.4	1.109		
276.	10.73	34.12	4.08	1.55	26.16	192.6	500.	6.80	34.34	26.94	119.5	1.311		
302.	9.75	34.15	3.48	1.60	26.35	174.5	600.	5.96	34.42	27.12	103.3	1.424		
402.	7.37	34.16	2.01	2.61	26.73	139.0	700.	5.33	34.45	27.22	94.1	1.523		
502.	6.80	34.34	C.86	3.10	26.95	119.2	800.	4.86	34.46	27.28	88.5	1.616		
602.	5.94	34.42	C.74	3.08	27.12	103.0	1000.	4.23	34.52	27.40	78.2	1.784		
803.	4.85	34.46	0.83		27.25	88.4	1200.	3.63	34.55	27.49	70.4	1.935		
1002.	4.22	34.52	1.09	2.89	27.40	78.1								
1202.	3.62	34.55	1.25	2.95	27.45	70.3								
1486.	2.88	34.60	1.67	2.63	27.60	59.7								

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA				
CRCM WELL		8, STATION	13, 19- ON LAT,	153-58W LCNG,	SEP.	7, 1964,	2400 G.C.T.						
DRY BULB 27.0		WET BULB 23.2	WIND SPEED 18, DIR. C6			BAR. 15	WEATHER 01	VIS. 8	CLCUD TYPE 8, COVER 4				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
C.	25.64	34.83	4.68	C.25	23.04	483.8	C.	25.64	34.83	23.04	483.8	0.000	
10. Δ	25.61	34.82	4.63	C.27	23.04	484.0	10.	25.61	34.82	23.04	484.0	0.049	
30. Δ	25.54	34.82			23.06	482.7	20.	25.58	34.82	23.05	483.5	0.097	
50. Δ	25.48	34.81			23.07	482.5	30.	25.54	34.82	23.06	482.7	C.146	
75.	25.00	34.81			23.22	469.5	50.	25.48	34.81	23.07	482.5	C.243	
102.	21.89	34.86	4.76	0.90	24.16	380.3	75.	25.00	34.81	23.22	469.5	C.363	
126.	20.76	34.98	4.36	C.29	24.56	342.8	100.	22.13	34.85	24.09	387.1	0.471	
152.	19.37	34.90	4.27	C.40	24.87	314.4	150.	19.49	34.91	24.85	316.5	0.648	
178.	17.30	34.70	3.99	0.54	25.23	280.4	200.	15.75	34.48	25.43	262.1	0.794	
192.	16.39	34.56	3.79		25.34	270.4	250.	11.81	34.17	26.00	207.9	0.913	
226.	13.57	34.28	3.08		25.74	232.4	300.	9.80	34.18	26.36	173.2	1.009	
252.	11.68	34.16	3.72	1.43	26.02	206.0	400.	7.50	34.14	26.70	142.1	1.168	
278.	10.32	34.16	3.57	1.74	26.26	182.7	500.	5.71	34.18	26.96	116.8	1.299	
303.	9.75	34.18	2.96		26.37	172.3	600.	5.31	34.36	27.15	99.3	1.408	
404.	7.41	34.14	2.29	2.52	26.71	141.1	700.	4.99	34.45	27.27	89.5	1.503	
504.	5.66	34.18	1.09	3.01	26.97	115.9	800.	4.67	34.49	27.33	84.0	1.591	
605.	5.31	34.37	0.66	3.26	27.16	98.6	1000.	4.07	34.51	27.41	77.0	1.754	
808.	4.65	34.49	0.80	3.17	27.33	83.7	1200.	3.59	34.54	27.48	70.7	1.903	
1008.	4.05	34.51	C.99	3.33	27.41	76.8	1500.	2.82	34.58	27.59	60.6	2.103	
1208.	3.57	34.54	1.24	3.19	27.45	70.5							
1508.	2.80	34.58	1.54	2.61	27.59	60.3							

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA				
CRCM WELL		8, STATION	14, 20-32N LAT,	154- 0W LCNG,	SEP.	8, 1964,	C500 G.C.T.						
DRY BULB 25.2		WET BULB 22.6	WIND SPEED 16, DIR. C6			BAR. 17	WEATHER 02	VIS. 7	CLCUD TYPE , COVER				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
C.	25.47	34.57	4.79	0.25	22.85	497.5	C.	25.47	34.57	22.89	497.5	0.000	
11. Δ	25.48	34.97	4.90	0.36	23.19	469.4	10.	25.48	34.94	23.17	471.2	0.049	
30. Δ	25.42	35.03			23.26	464.1	20.	25.47	35.05	23.25	463.9	0.096	
51.	25.04	35.08	4.79	1.13	23.41	450.2	30.	25.42	35.03	23.26	464.1	0.143	
77.	23.50	35.08	5.21	0.55	23.87	407.4	50.	25.07	35.08	23.40	451.2	C.235	
102.	22.55	35.16	5.08	0.14	24.20	376.4	75.	23.63	35.08	23.83	410.9	0.343	
127.	21.34	35.16	4.74	0.60	24.54	345.0	100.	22.62	35.15	24.18	378.7	0.443	
153.	20.32	35.11	4.63	0.58	24.78	323.1	150.	20.45	35.12	24.75	325.6	0.620	
177.	18.73	34.94	4.49	C.52	25.06	296.7	200.	17.71	34.82	25.22	282.2	C.774	
193.	18.08	34.86	4.52	C.44	25.16	287.5	250.	14.18	34.40	25.71	236.3	0.904	
226.	16.03	34.62	4.62	0.46	25.47	259.1	300.	11.25	34.16	26.09	199.5	1.014	
253.	13.96	34.38	4.66	0.89	25.74	233.7	400.	8.28	34.09	26.54	157.3	1.194	
279.	12.58	34.26	4.76	C.95	25.92	216.0	500.	6.23	34.10	26.83	129.3	1.339	
304.	11.00	34.14	4.13	1.32	26.13	196.5	600.	5.28	34.21	27.04	110.0	1.460	
405.	8.22	34.10	3.15	1.84	26.56	156.0	700.	4.86	34.33	27.19	96.8	1.564	
506.	6.13	34.10	1.86	3.37	26.85	127.9	800.	4.64	34.43	27.29	87.7	1.657	
606.	5.25	34.22	C.96	3.55	27.05	109.0	1000.	4.07	34.50	27.40	77.7	1.825	
808.	4.63	34.44	0.88	3.63	27.30	87.2	1200.	3.52	34.54	27.49	69.5	1.974	
1009.	4.04	34.50	1.14		27.41	77.4							
1187.	3.54	34.54	1.45	3.19	27.49	69.9							
1425.	2.99	34.58	1.50	2.59	27.57	62.1							

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 8, STATICA 15, 22- ON LAT, 153-58M LCNG, SEP. 8, 1964, 1700 G.C.T.													
DRY BULB 23.8		WET BULB 22.8		WIND SPEED 18, DIR. C8		BAR. 17		WEATHER 01		VIS. 6		CLCUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	CXY.	PG4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
C.	25.40	34.96	4.73	C.25	23.21	467.4	C.	25.40	34.96	23.21	467.4	0.000	
11.	25.43	34.96	4.86	1.55	23.20	468.7	10.	25.43	34.96	23.20	468.6	0.047	
30.Δ	25.43	34.97			23.21	468.7	20.	25.43	34.96	23.20	468.8	0.094	
50.Δ	25.42	34.97			23.21	469.2	30.	25.43	34.97	23.21	468.7	0.142	
75.Δ	24.80	34.99			23.42	450.7	50.	25.42	34.97	23.21	469.2	0.236	
97.	23.20	35.08	4.95	0.30	23.96	399.8	75.	24.80	34.99	23.42	450.7	0.352	
121.	22.41	35.15	4.84		24.24	374.0	100.	23.07	35.09	24.00	395.5	0.459	
147.	21.79	35.17	4.74	0.31	24.43	356.9	150.	21.69	35.17	24.46	354.1	0.647	
172.	20.79	35.16	4.58	0.36	24.69	332.3	200.	19.27	35.02	24.98	305.1	0.814	
186.	20.11	35.11	4.51		24.84	319.0	250.	15.52	34.54	25.52	255.0	0.955	
219.	17.95	34.85	4.48	0.73	25.19	286.0	300.	12.51	34.26	25.94	215.1	1.073	
244.	16.00	34.58	4.13	1.05	25.44	261.9	400.	9.39	34.13	26.39	172.0	1.269	
269.	14.13	34.42	4.45	1.09	25.73	234.6	500.	6.97	34.11	26.74	138.5	1.425	
294.	12.76	34.28	4.21	1.86	25.90	218.4	600.	5.79	34.24	27.00	114.0	1.553	
391.	9.66	34.14	3.85	2.46	26.36	175.5	700.	5.17	34.33	27.15	101.0	1.661	
490.	7.14	34.10	2.32	2.97	26.71	141.5	800.	4.80	34.39	27.24	92.8	1.759	
586.	5.90	34.23	0.94	3.15	26.98	116.3	1000.	4.01	34.49	27.40	78.0	1.932	
783.	4.88	34.38	0.80	3.22	27.22	94.5	1200.	3.44	34.54	27.50	68.9	2.081	
977.	4.08	34.48	1.12	3.15	27.35	79.1							
1172.	3.54	34.52	1.34	3.10	27.47	71.3							
1467.	2.93	34.58	1.48		27.58	61.6							

CROMWELL 8, STATICA 16, 23-30N LAT, 153-57M LCNG, SEP. 9, 1964, 0200 G.C.T.													
DRY BULB 24.9		WET BULB 22.1		WIND SPEED 17, DIR. C9		BAR. 18		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	CXY.	PG4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
C.	25.63	34.93	5.02	0.14	23.12	476.3	C.	25.63	34.93	23.12	476.3	0.000	
10.	25.63	34.93	5.00	1.05	23.12	476.7	10.	25.63	34.93	23.12	476.7	0.048	
20.	25.63	34.98			23.15	473.5	20.	25.63	34.98	23.15	473.5	0.096	
50.	25.20	35.22	5.08	0.14	23.47	444.8	30.	25.64	35.07	23.22	467.7	0.143	
76.	23.18	35.20	5.09	0.12	24.05	389.8	50.	25.20	35.22	23.47	444.8	0.235	
101.	22.11	35.22	4.91	0.18	24.37	360.1	75.	23.26	35.20	24.03	391.9	0.341	
127.	20.60	35.13	4.75	0.34	24.72	327.9	100.	22.15	35.22	24.36	361.1	0.435	
152.	19.76	35.07	4.69	0.36	24.90	311.8	150.	19.83	35.08	24.88	313.0	0.605	
177.	18.21	34.90	4.57	0.44	25.16	287.2	200.	16.81	34.71	25.36	268.9	0.752	
192.	17.32	34.78	4.54	0.68	25.29	275.5	250.	14.65	34.48	25.67	240.2	0.880	
226.	15.37	34.54	4.49		25.55	250.6	300.	12.27	34.27	25.99	210.3	0.994	
252.	14.59	34.48	4.60	0.76	25.68	239.3	400.	9.27	34.10	26.39	171.9	1.187	
278.	12.96	34.32	4.69	0.52	25.89	218.9	500.	6.67	34.04	26.73	139.5	1.344	
304.	12.18	34.26	4.69	1.08	26.00	209.1	600.	5.46	34.11	26.94	119.5	1.475	
404.	9.15	34.10	5.11	1.57	26.41	170.4	700.	4.81	34.23	27.11	103.9	1.588	
506.	6.54	34.04	2.53	2.55	26.75	137.9	800.	4.41	34.34	27.24	91.6	1.686	
605.	5.43	34.12	1.31	2.97	26.95	118.6	1000.	3.90	34.48	27.40	77.4	1.857	
807.	4.39	34.35	0.82		27.25	90.9	1200.	3.42	34.54	27.50	68.7	2.005	
1008.	3.88	34.48	1.18	3.01	27.41	77.0							
1208.	3.40	34.54	1.45	3.18	27.50	68.4							
1480.	2.84	34.58	1.56	3.06	27.59	60.6							

CROMWELL 8, STATICA 17, 23-27N LAT, 151- 0M LCNG, SEP. 9, 1964, 1900 G.C.T.													
DRY BULB 22.9		WET BULB 20.2		WIND SPEED 14, DIR. C9		BAR. 20		WEATHER 03		VIS. 7		CLOUD TYPE 6, COVER 5	
DEPTH	TEMP.	SAL.	CXY.	PG4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
C.	24.95	35.16			23.50	439.8	C.	24.95	35.16	23.50	439.8	0.000	
10.	24.92	35.17			23.51	438.6	10.	24.92	35.17	23.51	438.6	0.044	
30.Δ	24.86	35.18			23.54	437.0	20.	24.89	35.18	23.53	437.7	0.088	
50.Δ	24.82	35.18			23.55	436.6	30.	24.86	35.18	23.54	437.0	0.132	
77.	23.31	35.16			23.99	396.3	50.	24.82	35.18	23.55	436.6	0.220	
100.	22.16	35.22			24.36	361.4	75.	23.45	35.16	23.95	400.1	0.326	
125.	21.12	35.28			24.69	330.5	100.	22.16	35.22	24.36	361.4	0.422	
151.	20.68	35.26			24.80	321.5	150.	20.70	35.26	24.80	321.6	0.594	
177.	19.68	35.08			24.93	310.0	200.	18.16	34.89	25.17	287.6	0.747	
191.	18.77	34.96			25.08	295.5	250.	15.22	34.53	25.58	249.1	0.883	
225.	16.68	34.70			25.38	267.8	300.	12.29	34.26	25.98	210.9	0.999	
251.	15.16	34.52			25.59	248.3	400.	9.40	34.08	26.36	175.8	1.194	
277.	13.34	34.34			25.83	224.9	500.	6.99	34.04	26.69	144.1	1.355	
301.	12.25	34.26			25.99	210.3	600.	5.40	34.12	26.95	118.4	1.488	
402.	9.36	34.08			26.36	175.2	700.	4.76	34.26	27.14	101.1	1.599	
502.	6.95	34.04			26.69	143.5	800.	4.54	34.40	27.27	89.2	1.695	
602.	5.38	34.12			26.96	118.0	1000.	3.97	34.50	27.41	76.6	1.862	
802.	4.54	34.40			27.27	89.0	1200.	3.51	34.54	27.49	69.7	2.011	
1001.	3.97	34.50			27.41	76.5							
1200.	3.51	34.54			27.49	69.7							
1498.	2.87	34.57			27.58	61.8							

TEMPERATURE ERROR TEMP AT 700. METERS IS 0.12

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 24.9		8, STATION	18, 22-	ON LAT, 151-	1W LCNG, SEP. 10, 1964, 0400 G.C.T.	WIND SPEED 20, DIR. 07	BAR. 17	WEATHER 02	VIS. 8	CLOUD TYPE 6, COVER 5		
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.08	35.07			23.39	450.1	0.	25.08	35.07	23.39	450.1	0.000
1C.	25.06	35.08			23.40	449.2	10.	25.06	35.08	23.40	449.2	0.045
30.Δ	25.02	35.08			23.42	448.8	20.	25.04	35.08	23.41	448.9	0.091
50.Δ	24.98	35.08			23.43	448.5	30.	25.02	35.08	23.42	448.8	0.136
77.	22.63	35.14			24.17	379.1	50.	24.98	35.08	23.43	448.5	0.226
101.	21.61	35.20			24.50	348.2	75.	22.83	35.13	24.11	388.8	0.331
126.	21.13	35.22			24.65	335.1	100.	21.64	35.20	24.49	349.1	0.424
151.	20.62	35.23			24.79	322.1	150.	20.64	35.23	24.79	322.6	0.593
177.	19.67	35.10			24.94	308.3	200.	18.51	34.94	25.12	292.0	0.748
192.	18.90	35.00			25.07	297.0	250.	14.52	34.44	25.66	240.6	0.882
226.	16.88	34.72			25.35	270.9	300.	11.86	34.18	26.00	208.8	0.995
252.	14.33	34.42			25.69	238.3	400.	8.73	34.04	26.43	168.1	1.185
278.	12.96	34.28			25.86	221.8	500.	6.31	34.04	26.77	134.9	1.338
303.	11.72	34.17			26.02	207.2	600.	5.09	34.14	27.01	112.8	1.463
404.	8.64	34.04			26.44	166.8	700.	4.61	34.29	27.18	96.7	1.569
506.	6.19	34.04			26.79	133.2	800.	4.43	34.43	27.31	85.4	1.661
606.	5.05	34.15			27.02	111.7	1000.	3.94	34.51	27.42	75.4	1.824
807.	4.43	34.44			27.32	84.7	1200.	3.40	34.54	27.50	68.4	1.970
1008.	3.92	34.51			27.43	75.3	1500.	2.78	34.58	27.59	60.0	2.165
1208.	3.38	34.54			27.50	68.2						
1508.	2.76	34.58			27.59	59.9						

CROMWELL DRY BULB 24.5		8, STATION	19, 20-30N	LAT, 150-59W	LCNG, SEP. 10, 1964, 1400 G.C.T.	WIND SPEED 22, DIR. 06	BAR. 16	WEATHER 02	VIS. 8	CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.71	34.85			23.03	484.4	0.	25.71	34.85	23.03	484.4	0.000
10.	25.69	34.86			23.05	483.5	10.	25.69	34.86	23.05	483.5	0.049
30.Δ	25.68	34.86			23.05	484.0	20.	25.68	34.86	23.05	483.6	0.097
50.Δ	25.66	34.86			23.05	484.2	30.	25.68	34.86	23.05	484.0	0.146
75.	23.26	34.83			23.75	418.6	50.	25.66	34.86	23.05	484.2	0.244
101.	22.14	34.89			24.12	384.7	75.	23.26	34.83	23.75	418.6	0.357
126.	21.13	35.00			24.48	351.0	100.	22.17	34.89	24.10	385.8	0.459
152.	20.09	35.07			24.81	320.1	150.	20.19	35.07	24.79	322.4	0.637
176.	18.30	34.83			25.09	294.3	200.	16.29	34.55	25.36	269.1	0.786
192.	17.02	34.64			25.25	278.8	250.	12.80	34.23	25.86	221.3	0.910
226.	14.11	34.33			25.67	239.6	300.	10.48	34.16	26.23	186.0	1.013
252.	12.70	34.23			25.88	219.8	400.	7.81	34.13	26.64	147.7	1.181
277.	11.22	34.17			26.11	197.6	500.	6.88	34.31	26.91	122.5	1.317
303.	10.41	34.16			26.25	184.8	600.	6.21	34.38	27.06	109.7	1.435
404.	7.73	34.13			26.65	146.5	700.	5.57	34.42	27.17	99.2	1.540
505.	6.86	34.32			26.92	121.6	800.	5.02	34.46	27.27	90.6	1.636
605.	6.18	34.38			27.06	109.2	1000.	4.30	34.51	27.39	80.0	1.809
806.	4.99	34.46			27.27	90.2	1200.	3.71	34.55	27.48	71.5	1.962
1008.	4.28	34.51			27.39	79.6	1500.	2.98	34.58	27.57	62.4	2.166
1208.	3.69	34.55			27.48	71.2						
1508.	2.96	34.58			27.58	62.3						

CROMWELL DRY BULB 25.7		8, STATION	20, 19-	ON LAT, 150-59W	LCNG, SEP. 10, 1964, 2300 G.C.T.	WIND SPEED 22, DIR. 05	BAR. 16	WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	25.83	34.76			22.93	494.5	0.	25.83	34.76	22.93	494.4	0.000
11.	25.88	34.77			22.92	495.6	10.	25.88	34.77	22.92	495.6	0.050
30.Δ	25.88	34.78			22.93	495.7	20.	25.89	34.78	22.92	495.8	0.100
50.Δ	25.88	34.78			22.93	496.5	30.	25.88	34.78	22.93	495.7	0.150
75.Δ	25.87	34.79			22.94	496.5	50.	25.88	34.78	22.93	496.5	0.250
99.	23.08	35.01			23.94	401.6	75.	25.87	34.79	22.94	496.5	0.375
124.	22.40	35.08			24.19	378.9	100.	23.03	35.01	23.96	400.1	0.488
149.	21.34	35.10			24.50	350.1	150.	21.31	35.10	24.51	349.3	0.676
173.	20.36	35.06			24.73	328.5	200.	18.51	34.85	25.05	298.5	0.840
186.	19.41	34.96			24.90	312.3	250.	13.89	34.32	25.71	236.4	0.975
219.	17.10	34.68			25.26	278.6	300.	10.63	34.14	26.19	190.3	1.082
244.	14.41	34.37			25.63	243.3	400.	7.88	34.19	26.68	144.1	1.251
270.	12.39	34.21			25.92	215.9	500.	6.60	34.23	26.89	124.1	1.386
294.	10.90	34.14			26.14	194.5	600.	6.23	34.37	27.05	110.5	1.505
391.	8.06	34.19			26.65	146.7	700.	5.71	34.42	27.15	101.0	1.612
489.	6.66	34.22			26.87	126.0	800.	5.18	34.45	27.24	93.7	1.710
586.	6.30	34.36			27.03	112.1	1000.	4.41	34.52	27.39	80.2	1.886
789.	5.23	34.44			27.23	94.5	1200.	3.75	34.56	27.48	71.2	2.039
976.	4.50	34.52			27.37	81.3						
1171.	3.83	34.54			27.46	73.3						
1466.	3.08	34.58			27.56	63.4						

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CRCM WELL 8, STATION 21, 17-31N LAT, 151- 3W LCNG, SEP. 11, 1964, C5C0 G.C.T.												
DRY BULB 25.4	WET BULB 22.2		WIND SPEED 20, DIR. C6		BAR. 1c	WEATHER 02	VIS. 6	CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.88	34.62			22.81	506.0	0.	25.88	34.62	22.81	506.0	0.000
10.	25.86	34.61			22.80	506.5	10.	25.86	34.61	22.80	506.5	0.051
30.Δ	25.82	34.60			22.81	506.8	20.	25.84	34.60	22.81	506.7	0.102
50.Δ	25.80	34.60			22.82	507.0	30.	25.82	34.60	22.81	506.8	0.153
73.	24.10	34.51			23.26	465.2	50.	25.80	34.60	22.82	507.0	0.255
94.	22.38	34.63			23.85	409.7	75.	23.92	34.52	23.32	459.7	0.377
118.	21.47	34.81			24.24	373.3	100.	22.08	34.67	23.97	398.7	0.485
143.	21.06	35.01			24.50	349.1	150.	20.63	34.98	24.60	340.5	0.671
167.	19.29	34.84			24.84	317.3	200.	16.32	34.54	25.34	270.2	0.825
180.	18.19	34.75			25.05	297.7	250.	12.00	34.23	26.01	206.6	0.945
212.	15.16	34.42			25.51	254.5	300.	10.01	34.28	26.41	168.7	1.040
237.	12.87	34.27			25.87	219.8	400.	7.75	34.23	26.73	139.1	1.195
262.	11.36	34.22			26.12	196.0	500.	6.61	34.31	26.95	118.7	1.326
285.	10.48	34.28			26.33	176.8	600.	6.20	34.42	27.09	106.6	1.439
379.	8.14	34.23			26.67	144.7	700.	5.70	34.45	27.18	98.4	1.543
475.	6.76	34.2P			26.91	122.7	800.	5.20	34.47	27.26	91.9	1.639
569.	6.36	34.4G			27.05	109.7	1000.	4.36	34.52	27.39	80.1	1.813
761.	5.38	34.46			27.22	94.7	1200.	3.67	34.55	27.48	71.1	1.966
953.	4.54	34.51			27.36	82.4						
1146.	3.84	34.53			27.45	74.0						
1441.	3.04	34.58			27.57	62.8						

CRCM WELL 8, STATION 22, 16- ON LAT, 151- 3W LCNG, SEP. 11, 1964, 18C0 G.C.T.												
DRY BULB 25.7	WET BULB 22.9		WIND SPEED 22, DIR. C6		BAR. 15	WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 5				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.99	34.62			22.77	509.3	0.	25.99	34.62	22.77	509.3	0.000
10.	26.03	34.62			22.76	510.8	10.	26.03	34.62	22.76	510.8	0.051
30.Δ	26.03	34.62			22.76	511.6	20.	26.04	34.62	22.76	511.4	0.103
50.Δ	26.03	34.62			22.76	512.4	30.	26.03	34.62	22.76	511.6	0.154
75.Δ	25.00	34.62			23.08	483.1	50.	26.03	34.62	22.76	512.4	0.258
101.	22.52	34.60			23.75	415.9	75.	25.00	34.62	23.08	483.1	0.383
125.	20.27	34.78			24.54	344.7	100.	22.63	34.60	23.76	418.9	0.497
149.	17.30	34.62			25.17	285.3	150.	17.20	34.61	25.19	283.5	0.674
176.	14.72	34.40			25.59	245.6	200.	12.73	34.30	25.93	213.6	0.799
191.	13.35	34.30			25.80	225.7	250.	10.10	34.31	26.42	167.4	0.895
224.	11.40	34.31			26.22	185.6	300.	9.51	34.44	26.62	149.1	0.975
250.	10.10	34.31			26.42	167.4	400.	8.03	34.46	26.87	126.5	1.114
276.	9.95	34.44			26.34	155.9	500.	6.96	34.47	27.03	111.8	1.234
300.	9.51	34.44			26.62	149.1	600.	6.28	34.46	27.11	104.5	1.343
401.	8.02	34.46			26.87	126.3	700.	5.63	34.48	27.21	94.0	1.445
501.	6.95	34.47			27.03	111.7	800.	5.06	34.50	27.29	88.1	1.538
601.	6.27	34.46			27.11	104.5	1000.	4.30	34.52	27.39	79.1	1.707
800.	5.06	34.50			27.29	88.1	1200.	3.70	34.55	27.48	71.1	1.859
1000.	4.30	34.52			27.35	79.1						
1199.	3.74	34.56			27.48	71.0						
1452.	3.05	34.58			27.57	63.0						

CRCM WELL 8, STATION 23, 14-28N LAT, 150-58W LCNG, SEP. 12, 1964, G3C0 G.C.T.												
DRY BULB 26.8	WET BULB 24.9		WIND SPEED 20, DIR. C6		BAR. 13	WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 2				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.32	34.60			22.45	520.5	0.	26.32	34.60	22.45	520.5	0.000
11.	26.36	34.60			22.64	522.2	10.	26.36	34.60	22.44	522.1	0.053
30.Δ	26.30	34.61			22.67	520.4	20.	26.34	34.60	22.45	521.7	0.105
50.Δ	26.26	34.62			22.69	519.3	30.	26.30	34.61	22.67	520.4	0.158
75.Δ	25.50	34.63			22.63	497.0	50.	26.26	34.62	22.69	519.3	0.262
100.	22.95	34.73			23.76	418.3	75.	25.50	34.63	22.93	497.0	0.390
124.	21.38	35.06			24.46	353.1	100.	22.95	34.73	23.76	418.3	0.506
150.	18.93	34.92			25.00	302.1	150.	18.93	34.92	25.00	302.1	0.687
175.	15.80	34.52			25.44	259.8	200.	12.45	34.29	25.97	209.2	0.816
188.	13.50	34.30			25.77	228.6	250.	10.42	34.43	26.45	164.0	0.910
222.	11.56	34.42			26.24	184.0	300.	9.96	34.56	26.64	147.6	0.989
248.	10.44	34.42			26.44	165.0	400.	8.60	34.52	26.82	130.8	1.129
273.	10.32	34.53			26.55	155.4	500.	7.46	34.50	26.98	116.9	1.254
299.	9.97	34.56			26.63	147.9	600.	6.64	34.50	27.10	106.6	1.367
397.	8.64	34.52			26.82	131.3	700.	5.85	34.50	27.20	97.3	1.470
495.	7.51	34.50			26.97	117.4	800.	5.17	34.50	27.28	89.4	1.564
594.	6.69	34.50			27.09	107.2	1000.	4.26	34.52	27.40	78.4	1.734
791.	5.22	34.50			27.27	90.0	1200.	3.58	34.55	27.50	69.5	1.884
989.	4.30	34.52			27.35	79.0						
1186.	3.66	34.56			27.49	69.9						
1482.	2.92	34.59			27.59	60.9						

TEMPERATURE ERRCR TERP AT 200. METERS IS 0.20

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 26.0		8, STATION WET BULB 24.4		24, 12-57N LAT, 151- WIND SPEED 10, DIR. C3		1W LONG, SEP. 12, 1964, BAR. 13		1200 G.C.T. WEATHER 02		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.56	33.58			21.81	601.2	0.	26.56	33.58	21.81	601.2	0.000	
10.	26.65	33.63			21.82	600.7	10.	26.65	33.63	21.82	600.7	0.061	
20.Δ	26.65	33.65			21.84	599.6	20.	26.65	33.65	21.84	599.6	0.121	
30.Δ	26.64	33.68			21.86	597.6	30.	26.64	33.68	21.86	597.6	0.181	
51.	22.88	34.66			23.73	419.5	50.	23.09	34.61	23.63	429.1	0.285	
77.	21.51	34.90			24.30	366.4	75.	21.57	34.90	24.28	367.6	0.385	
102.	19.32	35.00			24.96	304.2	100.	19.56	35.01	24.90	309.6	0.470	
127.	14.22	34.35			25.66	237.7	150.	12.12	34.31	26.05	200.2	0.599	
152.	12.03	34.33			26.08	197.5	200.	11.45	34.70	26.48	160.7	0.690	
177.	11.71	34.65			26.35	168.8	250.	10.46	34.66	26.63	147.5	0.767	
192.	11.58	34.70			26.45	163.1	300.	9.61	34.62	26.74	137.7	0.839	
226.	10.94	34.68			26.56	154.0	400.	8.43	34.57	26.89	124.1	0.971	
253.	10.40	34.66			26.64	146.8	500.	7.33	34.54	27.03	111.9	1.091	
279.	9.92	34.61			26.68	142.9	600.	6.43	34.52	27.14	102.1	1.199	
304.	9.55	34.62			26.75	136.6	700.	5.72	34.52	27.23	94.0	1.298	
405.	8.38	34.57			26.90	123.7	800.	5.15	34.53	27.31	87.1	1.389	
506.	7.27	34.54			27.04	111.2	1000.	4.23	34.55	27.42	76.1	1.554	
607.	6.37	34.52			27.15	101.5	1200.	3.61	34.58	27.51	68.1	1.700	
808.	5.11	34.53			27.31	86.6							
1009.	4.20	34.55			27.43	75.7							
1209.	3.59	34.58			27.52	67.8							
1478.	2.87	34.62			27.62	58.1							

CROMWELL DRY BULB 27.2		8, STATION WET BULB 24.0		25, 11-27N LAT, 151- WIND SPEED 08, DIR. 21		0W LONG, SEP. 12, 1964, BAR. 15		2100 G.C.T. WEATHER 02		VIS. 9		CLOUD TYPE 1, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	27.21	33.27			21.37	643.2	0.	27.21	33.27	21.37	643.2	0.000	
10.	26.89	33.29			21.49	632.4	10.	26.89	33.29	21.49	632.4	0.064	
20.Δ	26.84	33.31			21.52	629.9	20.	26.84	33.31	21.52	629.9	0.128	
30.Δ	25.80	33.61			22.07	577.5	30.	25.80	33.61	22.07	577.5	0.189	
51.	14.26	34.34			25.68	233.4	50.	14.85	34.36	25.53	247.9	0.272	
77.	12.00	34.44			26.17	187.0	75.	11.91	34.45	26.20	184.4	0.326	
101.	11.47	34.59			26.39	167.0	100.	11.48	34.58	26.38	167.6	0.371	
126.	10.98	34.66			26.53	153.9	150.	10.62	34.66	26.60	148.0	0.450	
152.	10.59	34.66			26.60	147.7	200.	9.98	34.65	26.70	139.0	0.522	
178.	10.29	34.66			26.66	143.2	250.	9.50	34.64	26.77	133.4	0.591	
192.	10.08	34.66			26.69	140.0	300.	8.98	34.61	26.84	127.8	0.657	
226.	9.70	34.63			26.73	136.7	400.	7.66	34.56	27.00	113.5	0.779	
252.	9.49	34.64			26.78	133.1	500.	6.67	34.54	27.12	102.6	0.888	
278.	9.28	34.64			26.81	130.3	600.	5.85	34.52	27.21	94.3	0.987	
303.	8.93	34.61			26.84	127.4	700.	5.23	34.53	27.30	87.0	1.079	
404.	7.61	34.56			27.01	112.9	800.	4.76	34.55	27.37	80.7	1.164	
505.	6.63	34.54			27.13	102.1	1000.	4.04	34.57	27.46	72.3	1.318	
605.	5.81	34.52			27.22	93.9	1200.	3.45	34.59	27.54	65.3	1.458	
806.	4.74	34.55			27.37	80.4							
1008.	4.02	34.57			27.46	72.0							
1208.	3.43	34.59			27.54	65.1							
1498.	2.80	34.62			27.62	57.3							

TEMPERATURE ERROR TERM AT 50. METERS IS 0.16
TEMPERATURE ERROR TERM AT 75. METERS IS 0.14

CROMWELL DRY BULB 26.9		8, STATION WET BULB 24.3		26, 9-58N LAT, 147-58W WIND SPEED 13, DIR. C5		1W LONG, SEP. 13, 1964, BAR. 13		1600 G.C.T. WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	27.20	32.98	5.01	0.34	21.16	663.8	0.	27.20	32.98	21.16	663.8	0.000	
9.Δ	27.27	33.10	4.90	0.39	21.23	657.7	10.	27.27	33.11	21.23	656.8	0.067	
20.Δ	27.20	33.22			21.34	647.3	20.	27.20	33.22	21.34	647.3	0.132	
30.Δ	27.08	33.33			21.44	636.1	30.	27.08	33.33	21.46	636.1	0.197	
38.	23.72	34.47	5.41	0.55	23.34	458.0	50.	22.16	34.63	23.91	402.0	0.301	
47.	22.47	34.63	5.35	0.50	23.83	410.4	75.	14.19	34.40	25.71	231.6	0.381	
56.	21.16	34.59	5.07	0.53	24.16	378.9	100.	12.60	34.48	26.09	195.9	0.435	
65.	17.62	34.47	4.21	1.12	24.98	300.9	150.	11.23	34.73	26.54	153.8	0.523	
71.	15.06	34.42	3.09	1.56	25.53	248.3	200.	10.75	34.74	26.63	145.9	0.599	
96.	12.77	34.44	1.63	2.29	26.02	201.8	250.	10.29	34.72	26.70	140.5	0.671	
119.	12.05	34.66	0.64	2.39	26.33	172.8	300.	9.88	34.71	26.77	135.1	0.740	
143.	11.34	34.72	0.43	2.68	26.51	156.2	400.	9.18	34.67	26.85	129.0	0.874	
181.	10.93	34.74	0.41	2.69	26.60	148.4	500.	8.46	34.64	26.95	121.2	1.000	
238.	10.40	34.72	0.42	2.66	26.68	142.0	600.	7.46	34.58	27.04	112.8	1.118	
286.	9.99	34.72	0.42	2.52	26.75	136.2	700.	6.50	34.55	27.15	102.7	1.227	
381.	9.30	34.67	0.41	2.81	26.83	130.4	800.	5.71	34.54	27.25	93.7	1.326	
477.	8.67	34.66	0.40	3.11	26.92	123.0	1000.	4.70	34.56	27.38	81.5	1.504	
572.	7.75	34.59	0.36	3.06	27.01	115.6	1200.	3.96	34.58	27.48	72.5	1.660	
764.	5.95	34.54	0.63	3.00	27.22	96.4							
956.	4.89	34.55	1.00	3.23	27.35	83.9							
1148.	4.17	34.58	1.38	3.22	27.46	74.4							
1441.	3.36	34.59	1.67	3.10	27.55	66.0							

TEMPERATURE ERROR TERM AT 75. METERS IS 0.27

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 24.6		8, STATION WET BULB 27.0		27, 11-30N LAT, 148- WIND SPEED 16, DIR. C5		3M LCNG, SEP. 14, BAR. 12		1964, 0100 G.C.T. WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH C. Δ	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	27.20	33.10			21.25	655.2	0.	27.20	33.10	21.25	655.2	0.000	
10.	27.07	33.12	4.81	0.26	21.30	650.1	10.	27.07	33.12	21.30	650.1	0.066	
20.	26.00	33.68			22.06	578.0	20.	26.00	33.68	22.06	578.0	0.128	
26.	24.03	34.37	5.14	0.40	23.18	471.5	30.	22.61	34.53	23.71	420.7	0.178	
36.	20.64	34.58	4.90	0.55	24.29	365.4	50.	17.88	34.68	25.08	290.8	0.250	
51.	17.73	34.68	4.32	0.74	25.11	287.7	75.	14.24	34.46	25.74	228.7	0.315	
61.	16.06	34.53	3.50	1.09	25.35	261.3	100.	12.23	34.67	26.30	175.3	0.366	
76.	14.13	34.46	1.89	2.12	25.76	226.4	150.	10.98	34.70	26.56	151.7	0.448	
93.	12.46	34.62	C.44	2.35	26.22	182.7	200.	10.54	34.70	26.64	145.0	0.523	
103.	12.17	34.68	0.27		26.33	173.1	250.	10.09	34.70	26.72	138.8	0.595	
126.	11.37	34.69	C.48	2.70	26.49	158.5	300.	9.71	34.68	26.77	134.6	0.664	
178.	10.76	34.70	0.24	2.77	26.60	148.3	400.	8.87	34.64	26.88	125.9	0.795	
226.	10.31	34.70	C.34	2.70	26.68	141.7	500.	7.99	34.58	26.97	118.5	0.918	
278.	9.86	34.69	C.37	2.69	26.75	136.0	600.	7.02	34.55	27.08	108.2	1.033	
304.	9.60	34.68	0.34	2.81	26.78	134.3	700.	6.18	34.53	27.18	99.1	1.138	
404.	8.83	34.64	0.31	2.86	26.88	125.6	800.	5.50	34.53	27.27	91.5	1.234	
505.	7.94	34.58	C.35	3.10	26.97	118.1	1000.	4.59	34.55	27.39	80.6	1.408	
605.	6.97	34.55	0.42	3.29	27.09	107.7	1200.	3.91	34.58	27.48	71.8	1.562	
808.	5.45	34.53	0.63	3.58	27.27	91.0	1500.	3.09	34.62	27.59	60.9	1.764	
1008.	4.56	34.55	1.17	3.59	27.35	80.2							
1208.	3.89	34.58	1.43	3.19	27.49	71.4							
1508.	3.07	34.62	1.80	3.15	27.60	60.7							

CROMWELL DRY BULB 25.2		8, STATION WET BULB 24.2		28, 13- WIND SPEED 24, DIR. C7		3M LAT, 148- BAR. 15		1M LCNG, SEP. 14, WEATHER 02		1964, 1100 G.C.T. VIS. 6		CLOUD TYPE , COVER	
DEPTH C. Δ	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.96	33.40			21.55	626.2	0.	26.96	33.40	21.55	626.2	0.000	
10.	26.96	33.40	4.92	0.32	21.55	626.6	10.	26.96	33.40	21.55	626.6	0.063	
20.	26.91	33.52			21.66	616.9	20.	26.91	33.52	21.66	616.9	0.126	
25.	26.90	33.54	4.89	0.29	21.67	615.3	30.	26.00	33.92	22.24	561.1	0.185	
30.	26.00	32.92			22.24	561.1	50.	20.32	34.76	24.51	344.8	0.276	
38.	23.42	34.40	5.31	0.49	23.38	452.7	75.	16.81	34.52	25.21	279.3	0.355	
51.	20.13	34.77	5.18	C.35	24.57	339.3	100.	12.70	34.26	25.90	214.1	0.417	
61.	19.28	34.74	4.80	0.64	24.77	320.7	150.	11.29	34.60	26.43	164.4	0.512	
77.	16.41	34.48	3.47	1.16	25.27	273.1	200.	10.42	34.67	26.64	145.2	0.590	
92.	14.11	34.34	3.58	1.23	25.67	235.2	250.	9.88	34.66	26.73	137.9	0.662	
102.	12.38	34.24	3.02	1.45	25.95	209.3	300.	9.20	34.63	26.81	130.5	0.729	
127.	11.81	34.48	1.05	2.37	26.24	181.8	400.	7.95	34.56	26.96	117.8	0.855	
178.	10.73	34.66	C.27	2.70	26.58	150.7	500.	7.00	34.52	27.06	108.6	0.969	
226.	10.12	34.66	0.17	2.66	26.65	141.4	600.	6.21	34.52	27.17	99.3	1.074	
279.	9.54	34.65	0.20	2.72	26.78	133.7	700.	5.60	34.53	27.25	91.8	1.170	
304.	9.13	34.62	0.17	2.39	26.82	129.9	800.	5.10	34.54	27.32	85.7	1.260	
405.	7.90	34.56	C.44	2.54	26.96	117.2	1000.	4.21	34.56	27.43	75.1	1.423	
506.	6.95	34.52	0.44	3.22	27.07	108.1	1200.	3.61	34.58	27.51	68.0	1.568	
607.	6.16	34.52	C.51	2.99	27.17	98.6	1500.	2.92	34.61	27.60	59.6	1.762	
809.	5.06	34.54	C.74		27.33	85.2							
1009.	4.18	34.56	1.21	3.15	27.44	74.7							
1209.	3.59	34.58	1.49	3.41	27.52	67.8							
1509.	2.91	34.61	1.84	3.12	27.60	59.5							

CROMWELL DRY BULB 26.3		8, STATION WET BULB 24.8		29, 14-28N LAT, 147-58W WIND SPEED 20, DIR. C6		LCNG, SEP. 14, BAR. 16		1964, 1900 G.C.T. WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 4	
DEPTH C. Δ	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.78	33.73			21.85	597.0	0.	26.78	33.73	21.85	597.0	0.000	
10.	26.67	33.74	4.85	1.20	21.90	593.4	10.	26.67	33.74	21.90	593.4	0.060	
30.	26.58	33.76			21.94	590.0	20.	26.83	33.73	21.83	599.7	0.120	
61.	19.54	34.56	4.60		24.57	340.1	30.	26.58	33.76	21.94	590.0	0.180	
68.	16.30	34.42	3.08	1.44	25.25	274.8	50.	23.20	34.36	23.41	450.3	0.285	
77.	14.57	34.37	2.49	1.50	25.60	241.9	75.	14.80	34.37	25.55	246.3	0.372	
86.	13.74	34.35	2.24	1.91	25.76	226.9	100.	12.45	34.36	26.03	201.6	0.429	
94.	12.91	34.32	2.12	1.95	25.90	213.2	150.	10.33	34.45	26.49	158.6	0.520	
102.	12.32	34.38	1.69	2.55	26.07	197.9	200.	9.89	34.57	26.66	143.5	0.596	
127.	11.49	34.52	0.79		26.33	173.2	250.	8.79	34.47	26.76	134.7	0.666	
153.	10.19	34.44	1.20		26.50	157.2	300.	8.16	34.47	26.86	125.7	0.732	
192.	10.04	34.58	C.38	3.71	26.64	145.3	400.	7.52	34.52	26.99	114.6	0.853	
253.	8.72	34.46	0.53	3.49	26.76	134.3	500.	6.84	34.50	27.07	107.8	0.965	
279.	8.33	34.45	0.52	3.70	26.81	129.6	600.	6.10	34.50	27.17	99.2	1.070	
304.	8.14	34.48	0.42	2.92	26.87	124.9	700.	5.52	34.51	27.24	92.3	1.166	
404.	7.50	34.52	C.42	2.88	26.99	114.3	800.	5.04	34.52	27.31	86.4	1.257	
507.	6.79	34.50	C.52		27.07	107.3	1000.	4.19	34.56	27.44	74.8	1.420	
607.	6.05	34.50	0.62	2.90	27.17	98.6	1200.	3.60	34.57	27.51	68.5	1.565	
807.	5.01	34.52	C.68	3.41	27.32	86.0							
1007.	4.16	34.56	1.06	3.20	27.44	74.5							
1207.	3.58	34.57	1.41	3.40	27.51	68.4							
1495.	2.85	34.60	1.72	3.10	27.60	59.4							

TEMPERATURE ERROR TERM AT 20 METERS IS 0.15
 TEMPERATURE ERROR TERM AT 50 METERS IS 0.13
 SALINITY ERROR TERM AT 50 METERS IS 0.12

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 26.5		8, STATION WET BULB 23.7		30, 16- ON LAT, 148- WIND SPEED 20, DIR. 08		SEP. 15, 1964, 0400 G.C.T. BAR. 15 WEATHER 02			VIS. 8		CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.	
0.	26.39	34.10	3.69	0.54	22.26	558.6	0.	26.39	34.10	22.26	558.6	0.000	
10. _Δ	26.35	34.09	4.20	0.29	22.26	558.6	10.	26.35	34.09	22.26	558.6	0.056	
30. _Δ	26.24	34.09			22.29	556.1	20.	26.30	34.09	22.28	557.5	0.112	
50. _Δ	26.16	34.10			22.33	553.7	30.	26.24	34.09	22.29	556.1	0.169	
76.	22.50	34.66	5.11	0.52	23.84	410.1	50.	26.16	34.10	22.33	553.7	0.280	
101.	20.91	34.75	4.82	0.45	24.35	362.4	75.	22.66	34.64	23.78	416.1	0.402	
126.	18.61	34.76	4.24	0.72	24.95	305.6	100.	20.96	34.75	24.33	363.6	0.501	
150.	15.91	34.51	4.00	0.86	25.41	262.2	150.	15.91	34.51	25.41	262.2	0.658	
175.	13.16	34.24	4.17	1.56	25.79	226.0	200.	11.80	34.23	26.05	201.7	0.775	
191.	12.06	34.16	3.26	1.43	25.95	211.5	250.	11.03	34.63	26.50	159.9	0.966	
224.	11.57	34.51	0.90	2.62	26.32	176.7	300.	10.65	34.67	26.60	151.2	0.945	
251.	11.01	34.63	0.40	2.56	26.50	159.5	400.	9.55	34.64	26.77	137.1	1.090	
277.	10.94	34.68	0.19	2.76	26.56	155.2	500.	8.56	34.60	26.90	126.0	1.223	
301.	10.63	34.67	0.16	2.70	26.60	151.1	600.	7.37	34.52	27.01	115.5	1.345	
401.	9.54	34.64	0.27	2.66	26.77	137.0	700.	6.51	34.50	27.11	106.2	1.457	
503.	8.53	34.60	0.35	3.10	26.90	125.7	800.	5.84	34.51	27.21	97.6	1.560	
602.	7.35	34.52	0.41	2.82	27.01	115.3	1000.	4.65	34.52	27.36	83.6	1.744	
802.	5.83	34.51	0.62	3.34	27.21	97.5	1200.	3.90	34.54	27.45	74.5	1.904	
1001.	4.65	34.52	0.77	3.41	27.36	83.5	1500.	3.06	34.58	27.57	63.4	2.113	
1201.	3.90	34.54	1.08	2.93	27.45	74.5							
1500.	3.06	34.58	1.44	2.78	27.57	63.4							

CROMWELL DRY BULB 25.0		8, STATION WET BULB 22.8		31, 17-28N LAT, 147-59W LONG, SEP. 15, 1964, 1400 G.C.T. WIND SPEED 20, DIR. C6		BAR. 16 WEATHER 02			VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
0.	25.70	34.56	4.73	0.52	22.82	505.0	0.	25.70	34.56	22.82	505.0	0.000
10. _Δ	25.68	34.56	4.86	0.63	22.82	504.8	10.	25.68	34.56	22.82	504.8	0.051
30. _Δ	25.68	34.56			22.82	505.6	20.	25.69	34.56	22.82	505.6	0.102
50. _Δ	25.42	34.56			22.90	498.7	30.	25.68	34.56	22.82	505.6	0.153
77.	23.39	34.79	5.15	0.41	23.68	425.2	50.	25.42	34.56	22.90	498.7	0.254
99.	22.18	34.82	5.10	0.40	24.05	390.8	75.	23.56	34.77	23.62	431.3	0.371
124.	21.20	35.01	4.94	0.27	24.47	352.0	100.	22.13	34.83	24.07	389.1	0.474
151.	20.39	35.04	4.66	0.54	24.71	329.9	150.	20.43	35.04	24.70	330.6	0.656
177.	18.80	34.88	4.31	0.91	25.00	302.8	200.	16.87	34.62	25.28	276.7	0.809
191.	17.76	34.74	4.17	1.38	25.15	288.6	250.	12.23	34.18	25.93	214.6	0.933
223.	14.48	34.35	3.68	1.36	25.60	245.6	300.	10.44	34.31	26.36	174.2	1.031
250.	12.23	34.18	3.24	1.58	25.93	214.6	400.	8.94	34.47	26.73	139.7	1.189
276.	11.19	34.19	2.78	2.07	26.13	195.5	500.	7.69	34.47	26.92	122.3	1.321
302.	10.38	34.32	1.85	2.46	26.38	172.5	600.	6.82	34.47	27.05	111.3	1.439
402.	8.92	34.47	0.48		26.74	139.5	700.	6.09	34.48	27.15	101.7	1.547
502.	7.67	34.47	0.37	3.22	26.93	122.1	800.	5.48	34.50	27.24	93.5	1.645
604.	6.79	34.47	0.37	3.43	27.05	111.0	1000.	4.61	34.52	27.36	83.0	1.824
803.	5.46	34.50	0.56	3.56	27.25	93.3	1200.	3.92	34.54	27.45	74.7	1.984
1002.	4.60	34.52	0.79	3.29	27.36	82.9	1500.	3.06	34.58	27.57	63.4	2.194
1201.	3.92	34.54	1.06	3.45	27.45	74.7	2000.	2.23	34.63	27.68	52.2	2.488
1500.	3.06	34.58	1.44	3.26	27.57	63.4	2500.	1.83	34.66	27.73	47.1	2.741
1989.	2.24	34.63	2.02	2.80	27.68	52.4	3000.	1.64	34.68	27.77	44.7	2.975
2487.	1.84	34.66	2.50	2.51	27.73	47.2	4000.	1.44	34.70	27.79	43.5	3.427
2985.	1.64	34.68	2.87	2.75	27.76	44.7						
3994.	1.46	34.69	3.54	2.31	27.79	44.2						
4991.	1.45	34.70	3.89	2.48	27.75	45.9						

CROMWELL DRY BULB 26.7		8, STATION WET BULB 23.1		32, 19- ON LAT, 147-54W LONG, SEP. 16, 1964, C100 G.C.T. WIND SPEED 16, DIR. 05		BAR. 17 WEATHER 02			VIS. 8		CLOUD TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
1.	25.57	34.77	4.80	0.29	23.01	486.1	0.	25.57	34.77	23.01	486.0	0.000
10.	25.52	34.76	4.82	0.29	23.02	485.7	10.	25.52	34.76	23.02	485.7	0.049
30. _Δ	25.38	34.74			23.05	483.8	20.	25.45	34.75	23.04	484.8	0.098
50. _Δ	25.32	34.74			23.07	482.8	30.	25.38	34.74	23.05	483.8	0.147
75.	24.00	34.78	5.09	0.29	23.50	443.0	50.	25.32	34.74	23.07	482.8	0.244
100.	22.71	34.94	5.04	0.26	23.99	396.5	75.	24.00	34.78	23.50	443.0	0.361
125.	22.26	35.08	4.96	0.19	24.23	375.2	100.	22.71	34.94	23.99	396.5	0.466
150.	21.58	35.17	4.82	0.36	24.48	351.4	150.	21.58	35.17	24.48	351.4	0.655
174.	20.36	35.02	4.63	0.44	24.70	331.4	200.	18.56	34.88	25.06	297.7	0.818
187.	19.70	35.01	4.50	0.56	24.87	315.9	250.	14.52	34.42	25.65	241.7	0.954
221.	16.55	34.62	4.00	0.83	25.35	270.5	300.	11.08	34.15	26.12	196.6	1.065
247.	14.82	34.46	4.38	0.77	25.61	245.4	400.	7.98	34.12	26.61	150.6	1.240
272.	12.40	34.19	3.93	1.97	25.90	217.6	500.	6.71	34.21	26.86	127.5	1.381
295.	11.29	34.16	3.49	1.52	26.09	200.0	600.	6.06	34.33	27.04	111.4	1.501
393.	8.12	34.12	2.70	2.24	26.59	152.8	700.	5.48	34.40	27.17	99.6	1.608
491.	6.79	34.20	1.40	2.86	26.84	129.3	800.	4.99	34.45	27.26	91.1	1.704
591.	6.12	34.32	0.67	3.10	27.02	112.7	1000.	4.31	34.51	27.38	80.2	1.878
783.	5.06	34.44	0.90	3.24	27.25	92.3	1200.	3.68	34.55	27.48	71.2	2.031
978.	4.38	34.50	1.07	3.28	27.37	81.3						
1174.	3.75	34.54	1.18		27.47	72.4						
1420.	3.08	34.58	1.42	3.20	27.56	63.1						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.12

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 24.2		8, STATION WET BULB 21.7		33, 20-33N LAT, 147-58W LONG, SEP. 16, 1964, 1100 G.C.T. WIND SPEED 14, DIR. C5 BAR. 15 WEATHER 02				VIS. 8		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
C.	25.21	34.80	4.82	0.27	23.15	473.3	0.	25.21	34.80	23.15	473.3	0.000
5 _Δ	25.27	34.80	4.82	0.39	23.12	475.4	10.	25.27	34.80	23.13	475.5	0.048
30 _Δ	25.22	34.80			23.14	474.8	20.	25.26	34.80	23.13	475.6	0.096
50 _Δ	25.16	34.80			23.16	473.8	30.	25.22	34.80	23.14	474.8	0.144
75 _Δ	25.12	34.80			23.17	473.7	50.	25.16	34.80	23.16	473.8	0.239
100.	22.84	34.97	5.06		23.98	397.9	75.	25.12	34.80	23.17	473.7	0.358
124.	22.02	35.12	4.96	0.26	24.32	365.8	100.	22.84	34.97	23.98	397.9	0.468
150.	20.50	35.04	4.62	0.87	24.68	332.7	150.	20.50	35.04	24.68	332.7	0.652
175.	19.20	34.94	4.36	0.47	24.94	308.2	200.	17.82	34.79	25.17	286.9	0.808
191.	18.40	34.86	4.30	0.71	25.08	295.1	250.	14.33	34.40	25.67	239.7	0.941
225.	16.06	34.57	4.10	1.08	25.42	263.4	300.	11.48	34.15	26.05	204.2	1.053
250.	14.33	34.40	4.43	1.72	25.67	239.7	400.	8.05	34.04	26.53	157.8	1.236
277.	12.54	34.22	4.64	1.38	25.90	218.2	500.	6.19	34.07	26.81	131.1	1.382
300.	11.48	34.15	4.73		26.05	204.2	600.	5.46	34.25	27.05	109.1	1.503
400.	8.05	34.04	3.54	1.73	26.53	157.8	700.	5.04	34.38	27.20	95.4	1.606
502.	6.17	34.07	1.83	2.65	26.82	130.6	800.	4.74	34.46	27.30	87.1	1.698
603.	5.45	34.26	0.75	3.25	27.06	108.5	1000.	4.13	34.51	27.40	77.8	1.865
803.	4.73	34.46	0.80	3.10	27.30	86.9	1200.	3.59	34.54	27.48	70.6	2.016
1004.	4.12	34.51	0.98	3.58	27.41	77.6						
1203.	3.58	34.54	1.15	3.06	27.48	70.5						
1429.	2.95	34.56	1.49	3.28	27.56	63.1						

CROMWELL DRY BULB 23.0		8, STATION WET BULB 21.3		34, 22- ON LAT, 147-58W LONG, SEP. 16, 1964, 1900 G.C.T. WIND SPEED 18, DIR. C7 BAR. 20 WEATHER 25				VIS. 8		CLOUD TYPE 6, COVER 7		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
C.	25.35	34.88	4.72		23.16	471.6	C.	25.35	34.88	23.16	471.6	0.000
10.	25.35	34.89	4.85	0.38	23.17	471.3	10.	25.35	34.89	23.17	471.3	0.047
30 _Δ	25.35	34.89			23.17	472.1	20.	25.38	34.89	23.16	472.9	0.095
50.	24.80	34.96	4.91	0.25	23.39	451.9	30.	25.35	34.89	23.17	472.1	0.143
76.	23.90	34.89	5.07	0.16	23.61	432.3	50.	24.80	34.96	23.39	451.9	0.236
102.	22.11	35.12	5.18	0.15	24.30	367.4	75.	23.94	34.89	23.60	433.4	0.347
126.	21.34	35.20	5.04	0.78	24.57	342.1	100.	22.25	35.10	24.24	372.4	0.449
152.	20.45	35.12	4.78	0.57	24.75	325.7	150.	20.53	35.13	24.74	326.9	0.625
177.	19.16	35.00	4.53	0.34	25.00	302.9	200.	17.53	34.76	25.22	282.3	0.778
192.	18.12	34.84	4.43	0.41	25.14	289.9	250.	13.67	34.28	25.72	235.4	0.909
226.	15.55	34.50	4.36	0.97	25.48	257.4	300.	10.72	34.11	26.15	193.6	1.017
252.	13.52	34.26	4.00	0.72	25.73	233.6	400.	7.92	34.07	26.58	153.7	1.192
279.	11.80	34.14	4.11	1.23	25.98	210.3	500.	6.04	34.10	26.85	127.1	1.334
304.	10.54	34.11	3.79	1.70	26.18	190.7	600.	5.44	34.26	27.06	108.6	1.453
404.	7.86	34.07	3.16	2.42	26.59	152.8	700.	5.00	34.37	27.20	96.0	1.556
506.	5.96	34.10	1.59	2.64	26.87	125.7	800.	4.61	34.44	27.29	87.1	1.649
607.	5.43	34.27	0.73	3.50	27.07	107.6	1000.	4.04	34.52	27.42	76.1	1.814
808.	4.58	34.44	0.86	3.21	27.30	86.6	1200.	3.45	34.55	27.50	68.3	1.960
1009.	4.02	34.52	1.10	3.29	27.42	75.7	1500.	2.82	34.60	27.60	59.2	2.154
1210.	3.42	34.55	1.35	3.10	27.51	67.9						
1508.	2.81	34.60	1.59		27.60	59.0						

CROMWELL DRY BULB 24.3		8, STATION WET BULB 20.5		35, 23-27N LAT, 147-59W LONG, SEP. 17, 1964, 0400 G.C.T. WIND SPEED 22, DIR. C8 BAR. 12 WEATHER 01				VIS. 8		CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
C.	24.80	35.20	4.90	0.34	23.57	432.6	C.	24.80	35.20	23.57	432.6	0.000
10 _Δ	24.81	35.21	4.92	0.29	23.58	432.6	10.	24.81	35.21	23.58	432.6	0.044
30 _Δ	24.81	35.21			23.58	433.4	20.	24.81	35.21	23.58	432.9	0.087
50 _Δ	24.81	35.21			23.58	434.2	30.	24.81	35.21	23.58	433.4	0.131
76.	21.60	35.27	4.96	0.28	24.55	342.0	50.	24.81	35.21	23.58	434.2	0.218
101.	20.98	35.28	4.96	0.18	24.73	326.0	75.	21.73	35.27	24.52	345.7	0.316
126.	20.36	35.23	4.83	0.24	24.86	314.5	100.	20.98	35.28	24.73	325.9	0.401
152.	19.43	35.11	4.75	0.32	25.01	300.7	150.	19.52	35.12	25.00	301.9	0.559
179.	17.92	34.86	4.55	0.60	25.20	283.3	200.	16.38	34.63	25.39	265.5	0.702
193.	16.87	34.70	4.59	0.56	25.33	271.1	250.	12.90	34.23	25.84	223.6	0.825
226.	14.61	34.40	4.21	0.80	25.61	244.8	300.	10.66	34.12	26.17	191.8	0.930
252.	12.77	34.22	4.29	1.03	25.85	221.9	400.	8.21	34.04	26.51	160.0	1.108
279.	11.31	34.14	4.62	1.20	26.07	201.4	500.	6.16	34.03	26.79	133.6	1.256
304.	10.56	34.12	4.73	1.24	26.19	190.3	600.	5.07	34.12	26.99	114.0	1.381
404.	8.13	34.04	3.60	1.94	26.52	159.0	700.	4.60	34.25	27.15	99.5	1.489
505.	6.08	34.03	2.05	3.25	26.80	132.5	800.	4.40	34.38	27.27	88.7	1.584
607.	5.02	34.13	1.43	3.18	27.01	112.8	1000.	3.91	34.50	27.42	76.0	1.751
808.	4.39	34.39	0.77	3.30	27.28	88.0	1200.	3.42	34.53	27.49	69.4	1.898
1009.	3.89	34.50	1.14	3.24	27.42	75.6	1500.	2.82	34.58	27.59	60.5	2.095
1209.	3.40	34.53	1.35	3.52	27.49	69.2						
1509.	2.80	34.58	1.62	2.88	27.59	60.3						

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 8, STATION 36, 25- ON LAT, 147-59W LONG, SEP. 17, 1964, 1400 G.C.T.												
DRY BULB 21.5	WET BULB 20.0		WIND SPEED 22, DIR. 06				BAR. 19	WEATHER 25		VIS. 5	CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CHY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.40	35.22	5.02	0.16	23.71	419.7	0.	24.40	35.22	23.71	419.7	0.000
10.	24.41	35.22	4.95	C.25	23.71	420.4	10.	24.41	35.22	23.71	420.4	0.042
30.Δ	24.30	34.84			23.45	445.4	20.	24.39	35.00	23.55	435.6	0.085
49.	23.90	35.32	5.22	0.19	23.93	400.2	30.	24.30	34.84	23.45	445.4	0.130
73.	21.97	35.26	5.31	0.14	24.44	352.4	50.	23.83	35.32	23.96	397.9	0.215
98.	20.07	35.26	5.21	0.18	24.75	324.4	75.	21.86	35.26	24.47	349.5	0.309
122.	20.31	35.26	5.15	0.23	24.90	310.9	100.	20.82	35.26	24.76	323.0	0.394
147.	19.62	35.18	5.12	0.19	25.02	300.2	150.	19.47	35.15	25.03	298.9	0.550
172.	18.50	34.95		0.30	25.13	290.3	200.	17.47	34.82	25.28	276.2	0.695
186.	18.24	34.94	4.91	0.45	25.19	285.3	250.	14.17	34.39	25.70	237.5	0.825
219.	16.11	34.61	4.90	0.52	25.44	261.4	300.	11.77	34.19	26.02	206.9	0.937
245.	14.42	34.41	4.83	0.65	25.66	240.7	400.	8.06	34.05	26.42	169.3	1.127
271.	13.19	34.30	4.83	0.71	25.83	224.7	500.	6.59	34.02	26.73	139.7	1.283
295.	11.97	34.20	4.93	1.18	25.99	209.4	600.	5.61	34.09	26.90	123.0	1.415
392.	9.09	34.06	4.35	1.59	26.39	172.2	700.	4.89	34.20	27.07	107.2	1.532
492.	6.70	34.02	2.65	1.90	26.71	141.3	800.	4.41	34.31	27.22	93.8	1.633
590.	5.69	34.08	1.34	2.56	26.89	124.8	1000.	3.95	34.48	27.40	78.1	1.807
787.	4.46	34.30	0.51	3.58	27.20	95.3	1200.	3.54	34.55	27.49	69.5	1.957
985.	3.98	34.47	1.05	3.30	27.35	78.7						
1176.	3.64	34.52	1.21	3.50	27.46	72.5						
1461.	2.95	34.57	1.54	3.23	27.57	62.6						

SALINITY ERROR TERM AT 20. METERS IS 0.06

CROMWELL 8, STATION 37, 26-28N LAT, 148- CW LONG, SEP. 17, 1964, 2200 G.C.T.												
DRY BULB 24.0	WET BULB 21.0		WIND SPEED 22, DIR. 07				BAR. 21	WEATHER 02		VIS. 8	CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CHY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.32	35.36	4.96	0.19	23.84	407.3	0.	24.32	35.36	23.84	407.3	0.000
8.Δ	24.29	35.36	5.00	0.33	23.85	406.8	10.	24.28	35.32	23.82	409.4	0.041
30.Δ	24.18	34.88			23.52	439.1	20.	24.23	35.11	23.68	423.6	0.083
50.Δ	24.10	34.89			23.55	436.9	30.	24.18	34.88	23.52	439.1	0.127
72.	21.29	35.30	5.21	0.35	24.66	331.5	50.	24.10	34.89	23.55	436.9	0.215
97.	20.72	35.28	5.19	0.20	24.80	319.1	75.	21.15	35.31	24.71	327.1	0.311
120.	20.24	35.26	5.08	0.15	24.92	309.1	100.	20.66	35.28	24.82	317.7	0.392
145.	19.67	35.22	5.00	0.45	25.03	298.5	150.	19.53	35.19	25.05	297.0	0.547
170.	18.81	35.07	4.91	0.40	25.14	289.0	200.	16.81	34.78	25.41	263.9	0.688
180.	18.33	35.01	4.91	0.24	25.22	282.2	250.	14.02	34.52	25.83	224.9	0.812
202.	16.65	34.76	4.74	1.10	25.43	262.0	300.	12.22	34.33	26.05	204.7	0.920
221.	15.63	34.66	4.77	0.50	25.59	247.3	400.	9.42	34.14	26.40	171.8	1.110
239.	14.58	34.56	4.78	0.76	25.74	232.9	500.	7.15	34.03	26.66	146.9	1.271
257.	13.69	34.49	4.80	0.72	25.88	220.3	600.	5.50	34.06	26.89	124.1	1.408
329.	11.46	34.24	4.98	0.99	26.12	197.9	700.	4.78	34.15	27.05	109.4	1.526
400.	9.42	34.14	4.96	1.32	26.40	171.8	800.	4.44	34.26	27.17	98.1	1.631
474.	7.69	34.04	4.02	2.04	26.59	153.7	1000.	3.66	34.46	27.41	75.7	1.806
614.	5.33	34.07	1.53	2.88	26.92	121.2						
761.	4.60	34.22	0.62	3.15	27.12	102.6						
907.	4.03	34.37	0.59	3.12	27.30	86.0						
1029.	3.56	34.49	1.11	3.19	27.45	72.6						

SALINITY ERROR TERM AT 20. METERS IS 0.05

CROMWELL 8, STATION 38, 24-55N LAT, 151- SW LONG, SEP. 18, 1964, 1600 G.C.T.												
DRY BULB 24.0	WET BULB 20.5		WIND SPEED 14, DIR. 09				BAR. 21	WEATHER 02		VIS. 8	CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CHY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.09	35.00			23.33	455.4	0.	25.09	35.00	23.33	455.4	0.000
10.	25.08	35.00			23.34	455.5	10.	25.08	35.00	23.34	455.5	0.046
30.Δ	25.08	35.00			23.34	456.3	20.	25.08	35.00	23.34	455.9	0.092
50.Δ	25.07	35.00			23.34	456.8	30.	25.08	35.00	23.34	456.3	0.138
74.	22.83	35.00			24.00	394.5	50.	25.07	35.00	23.34	456.8	0.230
97.	21.64	35.15			24.45	352.5	75.	22.76	35.01	24.03	392.3	0.337
120.	20.96	35.22			24.69	330.5	100.	21.54	35.17	24.49	348.9	0.430
142.	20.14	35.16			24.87	314.6	150.	19.90	35.13	24.90	311.1	0.596
165.	19.46	35.08			24.98	304.1	200.	17.69	34.89	25.28	276.6	0.744
177.	19.08	35.08			25.08	295.1	250.	14.37	34.52	25.76	231.7	0.873
204.	17.34	34.94			25.32	273.2	300.	11.90	34.30	26.08	201.1	0.982
226.	15.87	34.65			25.54	252.3	400.	9.05	34.09	26.42	169.5	1.169
246.	14.65	34.54			25.71	236.0	500.	7.06	34.02	26.66	146.2	1.328
263.	13.47	34.46			25.90	218.3	600.	5.38	34.10	26.94	119.5	1.462
331.	11.06	34.17			26.15	194.5	700.	4.64	34.20	27.11	103.6	1.575
400.	9.05	34.09			26.42	169.5	800.	4.30	34.31	27.23	92.4	1.674
472.	7.63	34.02			26.58	154.2	1000.	3.73	34.47	27.41	75.9	1.844
609.	5.25	34.11			26.96	117.2	1200.	3.28	34.53	27.51	67.7	1.990
749.	4.48	34.26			27.17	98.1						
890.	4.04	34.40			27.33	83.8						
1107.	3.47	34.51			27.47	70.7						
1200.**	3.28**	34.58**			27.51	67.7						

TEMPERATURE ERROR TERM AT 300. METERS IS 0.14

ΔFROM BT DATA
**EXTRAPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 8, STATION 39, 25- ON LAT, 154- 1W LONG, SEP. 19, 1964, 0600 G.C.T.												
DRY BULB 25.0		WET BULB 22.1		WIND SPEED 14, DIR. 07		BAR. 21		WEATHER 01		VIS. 8 CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.05	35.42	4.96	0.20	23.66	424.0	0.	25.05	35.42	23.66	424.0	0.000
10.	24.98	35.42	5.00	1.08	23.69	422.4	10.	24.98	35.42	23.69	422.4	0.043
30.Δ	24.88	35.42			23.72	420.3	20.	24.92	35.42	23.70	421.1	0.085
50.Δ	24.84	35.42			23.73	419.9	30.	24.88	35.42	23.72	420.3	0.127
74.	21.59	35.22	5.28	0.92	24.52	345.3	50.	24.84	35.42	23.73	419.9	0.212
98.	20.96	35.28	5.22	0.35	24.74	325.3	75.	21.55	35.22	24.53	343.9	0.308
121.	19.56	35.07	4.90	1.32	24.95	305.8	100.	20.85	35.27	24.76	323.5	0.392
146.	18.50	34.92	4.71	0.96	25.11	291.6	150.	18.33	34.90	25.13	289.3	0.547
170.	17.43	34.78	4.67	1.28	25.26	277.3	200.	15.86	34.60	25.49	255.7	0.684
185.	16.69	34.69	4.80		25.37	267.5	250.	13.19	34.33	25.85	222.2	0.805
218.	14.83	34.50	4.87		25.64	241.8	300.	11.50	34.21	26.09	200.2	0.911
244.	13.47	34.35	4.80		25.81	225.0	400.	9.34	34.11	26.39	172.8	1.099
269.	12.41	34.27	4.90		25.96	211.8	500.	6.90	34.00	26.66	145.9	1.260
293.	11.67	34.22	4.95		26.07	202.4	600.	5.52	34.03	26.87	126.2	1.398
392.	9.55	34.12	4.73		26.36	175.2	700.	4.76	34.15	27.05	109.3	1.517
488.	7.12	34.00	3.54		26.64	148.6	800.	4.34	34.28	27.20	95.2	1.620
586.	5.66	34.02	2.04		26.84	126.8	1000.	3.71	34.45	27.40	76.9	1.794
780.	4.42	34.26	C.57		27.18	97.7	1200.	3.22	34.54	27.52	65.9	1.939
977.	3.77	34.44	C.89		27.35	78.4						
1163.	3.33	34.52	1.27		27.49	66.7						
1446.	2.75	34.58	1.59		27.59	59.4						

CROMWELL 8, STATION 40, 24-59N LAT, 157- 0W LONG, SEP. 19, 1964, 2000 G.C.T.												
DRY BULB 27.7		WET BULB 23.5		WIND SPEED 12, DIR. 07		BAR. 23		WEATHER 03		VIS. 8 CLOUD TYPE 2, COVER 5		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.63	35.00			23.17	471.2	0.	25.63	35.00	23.17	471.2	0.000
10.Δ	25.59	35.00			23.18	470.5	10.	25.59	35.00	23.18	470.5	0.047
30.Δ	25.52	35.00			23.20	469.2	20.	25.55	35.00	23.19	469.8	0.095
50.Δ	25.50	35.01			23.22	468.7	30.	25.52	35.00	23.20	469.2	0.142
77.	24.10	35.07			23.69	425.0	50.	25.50	35.01	23.22	468.7	0.237
102.	22.81	35.15			24.12	384.2	75.	24.23	35.06	23.64	429.0	0.350
127.	21.87	35.16			24.40	359.0	100.	22.91	35.14	24.09	387.2	0.452
153.	20.77	35.12			24.67	334.0	150.	20.91	35.13	24.63	336.9	0.635
178.	19.23	34.97			24.96	306.8	200.	18.28	34.89	25.13	290.7	0.793
193.	18.63	34.92			25.07	296.3	250.	15.71	34.60	25.53	254.0	0.930
227.	16.84	34.73			25.36	269.3	300.	13.31	34.34	25.84	224.8	1.051
254.	15.50	34.58			25.56	251.3	400.	10.08	34.13	26.28	183.7	1.257
279.	13.97	34.41			25.76	232.4	500.	7.74	34.02	26.57	156.0	1.429
304.	13.21	34.33			25.85	223.7	600.	5.94	34.03	26.81	132.1	1.574
405.	9.93	34.12			26.30	181.7	700.	4.98	34.14	27.02	112.5	1.698
507.	7.60	34.02			26.58	154.3	800.	4.49	34.29	27.19	96.8	1.804
608.	5.82	34.03			26.83	130.4	1000.	3.86	34.44	27.38	79.3	1.982
809.	4.47	34.30			27.20	95.6	1200.	3.32	34.54	27.51	67.6	2.131
1010.	3.84	34.45			27.35	78.7	1500.	2.76	34.58	27.59	59.7	2.324
1211.	3.29	34.54			27.51	67.1						
1511.	2.74	34.58			27.60	59.6						

CROMWELL 8, STATION 41, 23-29N LAT, 157- 0W LONG, SEP. 20, 1964, 0600 G.C.T.												
DRY BULB 26.0		WET BULB 24.0		WIND SPEED 14, DIR. 05		BAR. 19		WEATHER 02		VIS. 7 CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.64	34.92			23.11	477.3	0.	25.64	34.92	23.11	477.3	0.000
11.Δ	25.70	34.92			23.09	479.5	10.	25.70	34.92	23.09	479.4	0.048
50.Δ	25.60	34.94			23.13	476.7	20.	25.69	34.92	23.09	479.3	0.096
75.Δ	25.60	34.94			23.13	477.7	30.	25.67	34.93	23.10	478.8	0.145
102.	23.79	34.98			23.71	423.7	50.	25.60	34.94	23.13	476.7	0.241
127.	22.47	35.11			24.19	378.8	75.	25.60	34.94	23.13	477.7	0.361
153.	20.96	35.08			24.59	341.8	100.	23.95	34.97	23.66	428.5	0.475
178.	19.35	34.98			24.94	309.1	150.	21.14	35.09	24.54	345.7	0.670
193.	18.59	34.89			25.06	297.5	200.	18.20	34.85	25.12	291.6	0.831
226.	16.71	34.69			25.36	269.2	250.	15.36	34.56	25.57	250.1	0.968
253.	15.21	34.54			25.59	248.0	300.	13.30	34.35	25.85	224.1	1.087
279.	14.18	34.43			25.73	235.2	400.	9.68	34.13	26.34	177.1	1.290
305.	13.09	34.33			25.88	221.4	500.	7.06	34.04	26.68	144.8	1.452
405.	9.53	34.12			26.36	175.1	600.	5.53	34.09	26.92	121.9	1.587
507.	6.91	34.04			26.70	143.0	700.	4.81	34.21	27.09	105.4	1.702
607.	5.46	34.10			26.93	120.5	800.	4.46	34.33	27.23	93.1	1.802
807.	4.45	34.34			27.24	92.4	1000.	3.90	34.48	27.40	77.5	1.975
1009.	3.88	34.48			27.41	77.0	1200.	3.31	34.54	27.51	67.3	2.121
1203.	3.30	34.54			27.51	67.2						
1495.	2.80	34.58			27.59	60.3						

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CRCWELL 8, STATION		42, 22-		ON LAT, 156-59W LENG, SEP. 20, 1964, 1600 G.C.T.								
DRY BULB 26.4	WET BULB 23.6			WIND SPEED 20, CTR. 08	BAR. 18	WEATHER 01	VIS. 7	CLOUD TYPE	COVER			
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
C.	25.62	35.15			23.25	460.1	0.	25.62	35.15	23.29	460.1	0.000
10.	25.66	35.14			23.27	462.4	10.	25.66	35.14	23.27	462.4	0.046
30. ^Δ	25.56	35.11			23.27	462.5	20.	25.62	35.12	23.26	463.0	0.093
50. ^Δ	25.46	35.11			23.30	460.3	30.	25.56	35.11	23.27	462.5	0.140
75. ^Δ	25.46	35.11			23.30	461.3	50.	25.46	35.11	23.30	460.3	0.233
102.	22.56	35.07			24.13	383.2	75.	25.46	35.11	23.30	461.3	0.349
126.	20.84	35.04			24.59	340.6	100.	22.81	35.07	24.06	389.6	0.456
151.	18.91	34.92			25.00	301.7	150.	18.98	34.93	24.99	303.0	0.630
178.	17.62	34.78			25.22	282.0	200.	16.60	34.69	25.39	266.1	0.774
193.	16.90	34.72			25.34	270.3	250.	13.44	34.34	25.81	225.9	0.898
226.	15.29	34.54			25.57	248.9	300.	11.72	34.21	26.05	204.2	1.006
252.	13.30	34.33			25.83	224.1	400.	8.85	34.06	26.43	168.3	1.194
279.	12.39	34.26			25.96	212.4	500.	6.75	34.09	26.76	136.6	1.348
304.	11.59	34.20			26.06	202.6	600.	5.66	34.21	26.99	114.8	1.475
405.	8.72	34.06			26.45	166.6	700.	5.06	34.31	27.14	101.1	1.584
506.	6.65	34.10			26.78	134.9	800.	4.68	34.38	27.25	91.9	1.682
607.	5.61	34.22			27.01	113.6	1000.	4.00	34.48	27.39	78.5	1.854
809.	4.66	34.39			27.25	91.3	1200.	3.42	34.54	27.50	68.8	2.003
1009.	3.97	34.48			27.40	78.1	1500.	2.77	34.58	27.59	59.9	2.199
1209.	3.40	34.54			27.50	68.4						
1510.	2.75	34.58			27.59	59.7						

ΔFROM BT DATA

Table 2.--Original and derived oceanographic data for Townsend Cromwell cruise 9

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL DRY BULB 26.4		9, STATION WET BULB 22.6		1, 20-33N LAT, 157-17W LONG, CCT. 2, 1964, 0600 G.C.T.		WIND SPEED 18, DIR. 08		BAR. 19		WEATHER 03		VIS. 6		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
C.	26.15	34.94			22.96	491.0	C.	26.15	34.94	22.96	491.0	0.000			
9.	26.17	34.94			22.96	491.9	10.	26.18	34.94	22.95	492.4	0.050			
48.	25.74	34.94			23.05	480.7	20.	26.22	34.93	22.94	494.4	0.099			
72.	24.24	35.02			23.61	432.4	30.	26.15	34.93	22.96	492.8	0.149			
96.	23.16	35.09			23.98	397.9	50.	25.62	34.95	23.13	477.0	0.247			
119.	22.26	35.10			24.24	373.5	75.	24.09	35.03	23.66	427.4	0.361			
145.	21.04	35.06			24.55	345.0	100.	23.00	35.10	24.02	393.4	0.464			
169.	19.60	34.97			24.86	315.7	150.	20.77	35.05	24.61	339.3	0.649			
182.	18.62	34.90			25.06	297.2	200.	17.96	34.84	25.18	285.9	0.808			
215.	17.40	34.78			25.27	278.1	250.	14.11	34.41	25.73	234.4	0.937			
241.	15.14	34.51			25.58	248.3	300.	11.63	34.26	26.11	198.6	1.046			
264.	12.72	34.29			25.92	216.1	400.	8.44	34.14	26.55	156.3	1.226			
288.	12.07	34.28			26.04	205.2	500.	6.94	34.17	26.80	133.6	1.372			
379.	8.85	34.15			26.50	161.5	600.	5.68	34.28	27.05	109.8	1.495			
472.	7.41	34.15			26.71	141.4	700.	5.11	34.39	27.20	95.6	1.599			
565.	5.97	34.24			26.98	116.2	800.	4.75	34.46	27.30	86.8	1.691			
750.	4.98	34.44			27.26	90.9	1000.	4.05	34.52	27.42	76.2	1.856			
933.	4.24	34.50			27.39	79.2	1200.	3.48	34.55	27.50	68.9	2.003			
1122.	3.74	34.54			27.47	71.8									
1404.	3.01	34.54			27.54	65.1									

TEMPERATURE ERROR TERM AT 200. METERS IS 0.15

CROMWELL DRY BULB 24.7		9, STATION WET BULB 21.8		2, 19- 0N LAT, 157- 0W LONG, CCT. 2, 1964, 1700 G.C.T.		WIND SPEED 14, DIR. 13		BAR. 17		WEATHER 02		VIS.		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
C.	25.55	34.94			23.15	473.2	C.	25.55	34.94	23.15	473.2	0.000			
10.	25.58	34.93			23.13	475.2	10.	25.58	34.93	23.13	475.2	0.048			
50.Δ	25.58	34.93			23.13	476.8	20.	25.59	34.93	23.13	476.1	0.096			
75.Δ	25.58	34.93			23.13	477.8	30.	25.59	34.93	23.13	476.6	0.144			
102.	25.42	34.94			23.19	473.5	50.	25.58	34.93	23.13	476.8	0.240			
127.	23.84	35.05			23.75	421.0	75.	25.58	34.93	23.13	477.8	0.360			
152.	22.04	35.11			24.31	368.1	100.	25.46	34.94	23.17	474.8	0.480			
177.	20.68	35.07			24.65	336.1	150.	22.18	35.11	24.27	371.9	0.693			
193.	19.48	34.97			24.89	313.5	200.	18.93	34.91	24.99	304.3	0.864			
226.	16.86	34.69			25.33	272.6	250.	14.91	34.48	25.61	245.7	1.002			
253.	14.68	34.46			25.64	242.6	300.	11.99	34.26	26.03	205.7	1.116			
280.	13.01	34.34			25.90	218.5	400.	7.86	34.15	26.64	147.2	1.294			
305.	11.76	34.24			26.86	202.8	500.	6.29	34.24	26.94	119.5	1.429			
405.	7.71	34.15			26.67	144.7	600.	5.52	34.34	27.12	103.2	1.541			
506.	6.25	34.25			26.95	118.4	700.	5.09	34.43	27.23	92.7	1.640			
607.	5.48	34.35			27.13	102.3	800.	4.82	34.49	27.31	86.1	1.731			
808.	4.81	34.49			27.31	85.7	1000.	4.32	34.52	27.39	79.4	1.898			
1010.	4.30	34.52			27.35	79.2	1200.	3.70	34.56	27.49	70.7	2.050			
1210.	3.67	34.56			27.45	70.2	1500.	2.90	34.59	27.59	60.8	2.250			
1510.	2.87	34.59			27.59	60.5									

CROMWELL DRY BULB 25.8		9, STATION WET BULB 22.5		3, 17-30N LAT, 156-59W LONG, OCT. 3, 1964, 0200 G.C.T.		WIND SPEED 19, DIR. 06		BAR. 15		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
C.	26.10	34.85			22.91	496.0	C.	26.10	34.85	22.91	496.0	0.000			
10.	26.04	34.85			22.93	494.6	10.	26.04	34.85	22.93	494.6	0.050			
30.Δ	25.90	34.85			22.97	491.2	20.	25.98	34.85	22.95	493.2	0.100			
50.Δ	25.66	34.87			23.06	483.5	30.	25.90	34.85	22.97	491.2	0.149			
76.	23.20	35.06			23.94	400.4	50.	25.66	34.87	23.06	483.5	0.247			
101.	22.13	35.13			24.30	367.2	75.	23.30	35.05	23.91	403.9	0.359			
126.	21.15	35.15			24.59	340.7	100.	22.16	35.13	24.29	368.0	0.456			
152.	20.14	35.09			24.81	320.0	150.	20.22	35.10	24.80	321.4	0.630			
177.	19.04	34.97			25.01	302.1	200.	17.02	34.73	25.32	272.4	0.780			
191.	17.82	34.83			25.20	283.5	250.	13.96	34.37	25.72	234.7	0.908			
225.	15.09	34.49			25.58	248.3	300.	10.58	34.27	26.30	179.8	1.012			
252.	13.88	34.36			25.74	233.5	400.	7.92	34.25	26.72	140.5	1.174			
277.	12.38	34.33			26.02	207.1	500.	6.53	34.29	26.94	119.3	1.305			
302.	10.42	34.26			26.32	177.6	600.	5.84	34.37	27.09	105.6	1.418			
402.	7.92	34.25			26.72	140.4	700.	5.33	34.44	27.21	95.1	1.520			
503.	6.50	34.29			26.95	118.8	800.	4.92	34.49	27.30	87.2	1.612			
604.	5.82	34.37			27.10	105.2	1000.	4.27	34.53	27.40	78.1	1.779			
805.	4.90	34.49			27.30	86.8	1200.	3.65	34.57	27.50	69.3	1.928			
1005.	4.26	34.53			27.41	77.9	1500.	2.93	34.60	27.59	60.4	2.126			
1205.	3.64	34.57			27.50	69.1	2000.	2.15	34.64	27.70	50.3	2.407			
1506.	2.92	34.60			27.60	60.3	2500.	1.80	34.67	27.75	45.9	2.652			
1951.	2.20	34.64			27.65	51.0	3000.	1.59	34.69	27.77	43.5	2.880			
2442.	1.83	34.67			27.74	46.2									
2934.	1.63	34.68			27.77	44.4									
3924.	1.47	34.70			27.79	43.5									

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL		9, STATION	4, 15-58N LAT, 157-1W LCNG, CCT.		3, 1964, 1300 G.C.T.							
DRY BULB 25.2		WET BULB 22.4	WIND SPEED 18, DIR. C5		BAR. 14 WEATHER 02			VIS. 8		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
C.	26.32	34.67			22.71	515.5	0.	26.32	34.67	22.71	515.5	0.000
7.	26.28	34.67			22.72	514.6	10.	26.27	34.67	22.72	514.4	0.052
30.Δ	26.22	34.67			22.74	513.7	20.	26.24	34.67	22.73	513.9	0.104
50.Δ	26.20	34.68			22.75	513.2	30.	26.22	34.67	22.74	513.7	0.155
71.	25.78	34.91			23.06	485.0	50.	26.20	34.68	22.75	513.2	0.259
94.	23.85	34.68			23.46	446.7	75.	25.50	34.87	23.11	479.8	0.384
118.	21.85	35.01			24.29	369.0	100.	23.35	34.75	23.67	427.6	0.498
142.	19.77	34.93			24.75	321.9	150.	19.24	34.91	24.91	310.6	0.684
166.	17.84	34.79			25.17	286.0	200.	13.28	34.29	25.81	224.9	0.819
179.	15.86	34.55			25.45	259.1	250.	11.34	34.34	26.22	186.9	0.923
209.	12.48	34.24			25.93	213.9	300.	10.81	34.44	26.39	171.2	1.013
234.	11.57	34.29			26.14	194.0	400.	9.48	34.58	26.73	140.5	1.171
258.	11.28	34.36			26.25	184.3	500.	8.32	34.58	26.92	123.7	1.304
281.	11.05	34.40			26.32	177.8	600.	7.25	34.54	27.04	112.4	1.423
373.	9.82	34.56			26.66	146.9	700.	6.26	34.50	27.14	103.1	1.532
467.	8.69	34.59			26.87	128.2	800.	5.58	34.48	27.22	96.1	1.633
559.	7.70	34.56			26.99	116.9	1000.	4.74	34.52	27.35	84.5	1.815
745.	5.88	34.48			27.18	99.6	1200.	3.97	34.55	27.46	74.3	1.976
930.	5.05	34.51			27.30	88.6						
1104.	4.31	34.54			27.41	78.7						
1326.	3.54	34.57			27.51	68.8						

CROMWELL		9, STATION	5, 14-31N LAT, 157-1W LCNG, CCT.		3, 1964, 2200 G.C.T.							
DRY BULB 26.1		WET BULB 23.5	WIND SPEED 18, DIR. C7		BAR. 14 WEATHER 02			VIS. 8		CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
C.	26.93	33.83			21.88	594.4	0.	26.93	33.83	21.88	594.4	0.000
11.	26.82	33.82			21.91	592.2	10.	26.83	33.82	21.90	592.6	0.060
30.Δ	26.70	34.00			22.08	576.4	20.	26.75	33.89	21.99	585.2	0.119
50.Δ	26.62	34.10			22.18	567.6	30.	26.70	34.00	22.08	576.4	0.178
77.	25.27	34.62			22.99	491.1	50.	26.62	34.10	22.18	567.6	0.293
102.	22.33	34.81			24.00	395.7	75.	25.43	34.58	22.91	498.5	0.427
128.	19.91	34.87			24.71	329.2	100.	22.58	34.80	23.92	403.0	0.541
153.	17.20	34.70			25.26	277.3	150.	17.57	34.73	25.19	283.4	0.714
178.	13.18	34.33			25.86	219.9	200.	11.97	34.41	26.16	191.6	0.833
193.	12.17	34.37			26.09	198.1	250.	11.08	34.66	26.52	158.1	0.922
226.	11.65	34.58			26.35	174.0	300.	10.32	34.65	26.64	147.3	0.999
253.	11.00	34.67			26.54	156.4	400.	9.00	34.60	26.83	130.9	1.139
279.	10.45	34.64			26.61	149.7	500.	8.04	34.56	26.94	120.8	1.266
305.	10.30	34.65			26.65	146.9	600.	6.97	34.54	27.08	108.2	1.382
406.	8.91	34.60			26.84	129.8	700.	6.17	34.53	27.18	99.6	1.487
507.	7.98	34.56			26.95	120.2	800.	5.58	34.52	27.25	93.4	1.584
608.	6.88	34.54			27.05	107.2	1000.	4.67	34.55	27.38	81.7	1.761
809.	5.54	34.52			27.25	92.9	1200.	3.90	34.57	27.48	72.4	1.917
1011.	4.63	34.55			27.38	81.1						
1210.	3.87	34.57			27.48	71.9						
1477.	3.07	34.59			27.57	62.7						

CROMWELL		9, STATION	6, 13-4N LAT, 157-2W LCNG, CCT.		4, 1964, 0700 G.C.T.							
DRY BULB 26.6		WET BULB 23.9	WIND SPEED 21, DIR. C6		BAR. 12 WEATHER 03			VIS. 6		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	27.07	33.64			21.69	612.3	0.	27.07	33.64	21.69	612.3	0.000
10.Δ	27.08	33.64			21.69	613.0	10.	27.08	33.64	21.69	613.0	0.062
30.Δ	26.70	33.71			21.86	597.2	20.	27.13	33.62	21.66	616.1	0.124
50.	23.08	34.53			23.58	434.4	30.	26.70	33.71	21.86	597.2	0.185
76.	21.51	34.88			24.28	367.8	50.	23.08	34.53	23.58	434.4	0.289
102.	19.30	34.80			24.81	318.2	75.	21.54	34.88	24.27	368.8	0.390
127.	15.33	34.46			25.50	252.7	100.	19.52	34.82	24.77	322.1	0.477
152.	12.00	34.24			26.02	203.5	150.	12.22	34.25	25.99	206.7	0.610
177.	10.80	34.28			26.27	179.9	200.	10.76	34.48	26.43	164.9	0.704
192.	10.82	34.43			26.38	169.5	250.	10.15	34.60	26.63	147.0	0.782
226.	10.43	34.57			26.56	153.3	300.	9.90	34.66	26.72	139.4	0.855
253.	10.12	34.60			26.64	146.4	400.	8.67	34.60	26.88	125.6	0.988
278.	10.08	34.65			26.68	142.6	500.	7.49	34.55	27.02	113.4	1.109
304.	9.86	34.66			26.73	138.8	600.	6.68	34.53	27.11	104.9	1.219
405.	8.60	34.60			26.89	124.9	700.	5.89	34.53	27.22	95.5	1.320
506.	7.43	34.55			27.02	112.7	800.	5.18	34.54	27.31	86.8	1.412
607.	6.63	34.53			27.12	104.3	1000.	4.28	34.55	27.42	76.7	1.578
808.	5.13	34.54			27.32	86.1	1200.	3.69	34.58	27.50	69.1	1.725
1009.	4.25	34.55			27.42	76.3	1500.	2.87	34.61	27.61	59.0	1.920
1212.	3.66	34.58			27.51	68.6						
1508.	2.85	34.61			27.61	58.7						

TEMPERATURE ERROR TERM AT 20. METERS IS 0.11

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL		9, STATION	7, 11-35M LAT, 157- 3M LCNG, OCT.		4, 1964, 1600 G.C.T.		BAR. 11		WEATHER 81	VIS.	CLOUD TYPE , COVER			
DRY BULB 26.7		WET BULB 23.6		WIND SPEED 06, DIR. 07										
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
2.	27.15	33.71			21.72	609.8	0.	27.15	33.71	21.72	609.7	0.000		
12.	27.23	33.80			21.76	606.2	10.	27.22	33.79	21.76	606.4	0.061		
20.Δ	27.23	33.80			21.76	606.5	20.	27.23	33.80	21.76	606.5	0.122		
30.Δ	27.22	33.80			21.77	606.6	30.	27.22	33.80	21.77	606.6	0.183		
52.	20.76	34.91			24.51	345.2	50.	21.44	34.80	24.24	370.9	0.282		
76.	18.84	34.92			25.02	297.5	75.	18.95	34.97	25.03	296.7	0.366		
103.	15.24	34.49			25.55	247.9	100.	15.71	34.55	25.48	253.7	0.435		
128.	11.76	34.25			26.07	197.9	150.	10.28	34.17	26.28	178.5	0.544		
154.	10.16	34.18			26.30	175.9	200.	10.40	34.63	26.62	147.4	0.626		
178.	10.24	34.49			26.53	154.9	250.	9.94	34.67	26.72	138.2	0.698		
193.	10.41	34.61			26.60	149.3	300.	9.34	34.63	26.80	132.1	0.767		
228.	10.15	34.66			26.68	142.0	400.	8.32	34.59	26.93	121.1	0.894		
255.	9.89	34.67			26.73	137.5	500.	7.31	34.55	27.04	110.7	1.011		
280.	9.59	34.65			26.77	134.6	600.	6.37	34.54	27.16	99.9	1.118		
306.	9.27	34.63			26.80	131.4	700.	5.62	34.54	27.24	91.1	1.214		
406.	8.26	34.59			26.93	120.5	800.	5.03	34.55	27.34	84.1	1.303		
508.	7.23	34.55			27.05	109.9	1000.	4.26	34.57	27.44	79.0	1.464		
606.	6.32	34.54			27.17	99.3	1200.	3.62	34.59	27.52	67.5	1.608		
810.	4.98	34.55			27.34	83.5	1500.	2.92	34.62	27.61	58.9	1.800		
1010.	4.23	34.57			27.44	74.6	2000.	2.17	34.65	27.70	50.2	2.077		
1212.	3.59	34.59			27.52	67.1	2500.	1.87	34.68	27.75	46.3	2.323		
1519.	2.88	34.62			27.61	58.4	3000.	1.69	34.69	27.77	44.8	2.555		
2012.	2.16	34.65			27.70	50.1	4000.	1.44	34.70	27.80	43.2	3.007		
2510.	1.87	34.68			27.75	46.2								
3008.	1.69	34.69			27.77	44.8								
4002.	1.44	34.70			27.80	43.2								

TEMPERATURE ERROR TERM AT 50. METERS IS 0.18
 TEMPERATURE ERROR TERM AT 75. METERS IS 0.14

CROMWELL		9, STATION	7A, 10- ON LAT, 153-56M LCNG, OCT.		5, 1964, 1200 G.C.T.		BAR. 12		WEATHER 02	VIS. 8	CLOUD TYPE , COVER			
DRY BULB 26.5		WET BULB 23.8		WIND SPEED 14, DIR. 08										
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	27.44	33.56		4.94	21.52	629.4	0.	27.44	33.56	21.52	629.4	0.000		
9.	27.46	33.56		5.01	21.51	630.4	10.	27.46	33.56	21.51	630.5	0.063		
20.Δ	27.46	33.56			21.51	630.8	20.	27.46	33.56	21.51	630.8	0.127		
30.Δ	27.40	33.57			21.54	628.7	30.	27.40	33.57	21.54	628.7	0.190		
44.	22.52	35.08		5.41	24.15	379.2	50.	22.00	35.08	24.30	365.4	0.291		
50.Δ	22.00	35.08			24.30	365.4	75.	18.81	34.85	24.97	302.1	0.375		
69.	19.95	34.97		5.15	24.77	320.9	100.	14.14	34.47	25.77	226.5	0.441		
89.	16.00	34.56		4.05	25.43	258.7	150.	11.40	34.72	26.50	157.5	0.538		
111.	12.70	34.46		1.61	26.05	199.4	200.	10.72	34.73	26.64	145.8	0.614		
135.	11.65	34.64		0.61	26.35	167.4	250.	10.09	34.71	26.73	137.9	0.686		
157.	11.32	34.74		0.29	26.53	154.7	300.	9.69	34.69	26.78	133.6	0.754		
169.	11.08	34.74		0.25	26.58	150.7	400.	8.85	34.65	26.89	125.4	0.885		
199.	10.73	34.73		0.41	26.63	146.1	500.	7.76	34.59	27.00	114.9	1.006		
223.	10.38	34.73		0.45	26.69	140.6	600.	6.85	34.55	27.11	105.6	1.118		
247.	10.12	34.71		0.53	26.72	138.2	700.	6.10	34.55	27.20	97.0	1.220		
269.	9.90	34.70		0.55	26.75	135.8	800.	5.48	34.55	27.29	89.7	1.314		
360.	9.28	34.67		0.47	26.83	129.7	1000.	4.53	34.56	27.41	78.6	1.485		
442.	8.37	34.62		0.33	26.94	120.6	1200.	3.79	34.59	27.50	69.8	1.635		
533.	7.44	34.57		0.41	27.04	111.9								
720.	5.97	34.55		0.77	27.22	95.4								
901.	4.96	34.56		1.10	27.35	83.5								
1084.	4.21	34.57		1.30	27.44	75.1								
1363.	3.37	34.61		1.78	27.56	64.1								

CROMWELL		9, STATION	8, 11-29N LAT, 153-56M LCNG, OCT.		5, 1964, 2100 G.C.T.		BAR. 15		WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 2			
DRY BULB 27.0		WET BULB 24.4		WIND SPEED 20, DIR. 08										
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	27.20	33.65		4.89	21.66	615.6	0.	27.20	33.65	21.66	615.6	0.000		
10.	27.21	33.67		4.61	21.67	614.8	10.	27.21	33.67	21.67	614.8	0.062		
20.Δ	25.60	34.03			22.45	541.0	20.	25.60	34.03	22.45	541.0	0.120		
30.Δ	21.50	34.47			23.97	395.5	30.	21.50	34.47	23.97	395.5	0.167		
51.	17.76	34.68		4.55	25.10	288.4	50.	17.86	34.64	25.08	290.3	0.236		
76.	13.26	34.32		3.05	25.83	219.4	75.	13.42	34.34	25.82	221.2	0.301		
102.	11.32	34.30		2.24	26.19	185.7	100.	11.40	34.29	26.17	187.7	0.352		
127.	10.62	34.45		1.39	26.43	163.2	150.	10.43	34.57	26.56	151.8	0.438		
153.	10.42	34.58		0.72	26.57	150.8	200.	9.88	34.60	26.68	141.5	0.512		
178.	10.21	34.62		0.40	26.64	144.9	250.	9.06	34.56	26.78	132.2	0.581		
192.	10.04	34.61		0.49	26.66	143.1	300.	8.71	34.59	26.87	125.1	0.646		
226.	9.35	34.56		0.50	26.74	136.2	400.	7.70	34.56	26.99	114.1	0.766		
253.	9.03	34.56		0.49	26.75	131.7	500.	6.87	34.54	27.10	105.4	0.877		
279.	8.92	34.60		0.48	26.84	127.5	600.	6.05	34.54	27.20	95.7	0.979		
304.	8.66	34.59		0.49	26.87	124.7	700.	5.51	34.55	27.28	89.1	1.072		
404.	7.66	34.56		0.71	27.00	113.7	800.	5.11	34.56	27.34	84.3	1.160		
507.	6.82	34.54		0.69	27.10	104.8	1000.	4.27	34.57	27.44	75.0	1.321		
607.	6.00	34.54		0.85	27.21	95.0	1200.	3.58	34.59	27.52	67.0	1.465		
808.	5.08	34.56		0.99	27.34	84.0	1500.	2.92	34.62	27.61	58.8	1.656		
1010.	4.23	34.57		1.38	27.44	74.6								
1211.	3.55	34.59		1.65	27.53	66.6								
1511.	2.90	34.62			27.61	58.6								

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL		9, STATION		9, 13- ON LAT, 154- 6W LCNG, OCT.			6, 1964, 0600 G.C.T.						
DRY BULB 26.8		WET BULB 24.0		WIND SPEED 12, DIR. 08			BAR. 15 WEATHER 01		VIS. 8		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
C.	26.88	33.67	5.11		21.78	604.4	0.	26.88	33.67	21.78	604.4	0.000	
1C.	26.84	33.66	5.18		21.78	604.3	10.	26.84	33.66	21.78	604.3	0.061	
30.Δ	26.74	33.66			21.81	602.0	20.	26.82	33.65	21.78	604.6	0.122	
50.Δ	26.22	33.76			22.05	580.0	30.	26.74	33.66	21.81	602.0	0.183	
74.	22.88	34.66	5.59		23.73	420.4	50.	26.22	33.76	22.05	580.0	0.302	
98.	20.86	34.90	5.23		24.40	350.2	75.	22.78	34.68	23.77	416.4	0.427	
122.	18.67	34.85	4.68		25.01	300.0	100.	20.71	34.91	24.52	345.9	0.523	
148.	14.29	34.37	3.91		25.66	238.2	150.	13.98	34.35	25.71	233.7	0.669	
171.	11.62	34.27	2.93		26.11	194.9	200.	11.19	34.56	26.42	166.7	0.770	
187.	11.38	34.45	1.49		26.30	177.8	250.	10.55	34.68	26.63	147.7	0.849	
220.	10.91	34.66	0.48		26.55	154.8	300.	9.85	34.65	26.72	139.4	0.922	
245.	10.60	34.68			26.62	148.5	400.	8.81	34.62	26.87	127.0	1.056	
271.	10.32	34.68	0.29		26.67	144.3	500.	7.65	34.55	26.99	116.0	1.179	
296.	9.90	34.65	0.29		26.72	140.0	600.	6.70	34.53	27.11	105.3	1.290	
394.	8.88	34.62	0.40		26.86	127.7	700.	5.92	34.53	27.21	95.8	1.392	
494.	7.71	34.55	0.53		26.98	116.7	800.	5.30	34.54	27.30	88.2	1.485	
591.	6.78	34.53	0.68		27.10	106.2	1000.	4.48	34.55	27.40	78.8	1.654	
789.	5.36	34.54	0.65		27.29	88.8	1200.	3.77	34.58	27.50	69.7	1.805	
986.	4.53	34.55	0.99		27.35	79.6							
1173.	3.85	34.59	1.91		27.50	69.9							
1447.	3.09	34.61	1.50		27.59	61.2							

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL		9, STATION		10, 14-29N LAT, 154- 5W LCNG, OCT.			6, 1964, 1500 G.C.T.						
DRY BULB 25.6		WET BULB 23.4		WIND SPEED 16, DIR. 07			BAR. 15 WEATHER 02		VIS.		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	26.48	34.56			22.57	528.3	0.	26.48	34.56	22.57	528.2	0.000	
1C.	26.46	34.57	4.66		22.59	527.3	10.	26.46	34.57	22.59	527.3	0.053	
30.Δ	26.40	34.56			22.60	527.0	20.	26.43	34.57	22.59	527.2	0.106	
50.Δ	26.32	34.57			22.63	524.7	30.	26.40	34.56	22.60	527.0	0.159	
74.	24.78	34.72	4.94		23.22	469.5	50.	26.32	34.57	22.63	524.7	0.265	
99.	22.77	34.94	4.80		23.97	398.1	75.	24.70	34.73	23.25	466.5	0.390	
124.	21.46	35.08			24.45	353.8	100.	22.72	34.95	24.00	396.1	0.499	
150.	19.34	35.00	4.95		24.95	306.4	150.	19.34	35.00	24.95	306.4	0.676	
173.	17.29	34.73	5.23		25.26	277.8	200.	14.65	34.46	25.65	240.6	0.814	
188.	15.95	34.59	4.21		25.46	258.4	250.	10.76	34.20	26.21	186.8	0.921	
222.	12.42	34.26	3.91		25.95	211.6	300.	9.28	34.20	26.47	162.8	1.010	
248.	10.84	34.20	3.54		26.20	188.0	400.	7.84	34.40	26.84	128.4	1.157	
273.	10.02	34.19	3.75		26.34	175.4	500.	7.05	34.48	27.03	112.2	1.278	
298.	9.32	34.20	2.81		26.46	163.7	600.	6.20	34.49	27.15	101.3	1.386	
396.	7.88	34.39	0.92		26.83	129.3	700.	5.53	34.51	27.24	92.5	1.484	
494.	7.10	34.48	0.56		27.02	113.0	800.	5.01	34.52	27.32	85.8	1.574	
590.	6.28	34.49	0.61		27.14	102.2	1000.	4.28	34.55	27.42	76.4	1.738	
784.	5.08	34.52	0.84		27.31	86.7	1200.	3.62	34.58	27.51	68.4	1.885	
978.	4.36	34.55	0.98		27.41	77.4							
1173.	3.69	34.57	1.25		27.50	69.4							
1467.	2.90	34.60	1.64		27.60	59.8							

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL		9, STATION		11, 16- ON LAT, 154- 2W LCNG, OCT.			7, 1964, 0000 G.C.T.						
DRY BULB 26.1		WET BULB 22.2		WIND SPEED 20, DIR. 07			BAR. 15 WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
C.	26.22	34.59	4.72		22.68	518.3	0.	26.22	34.59	22.68	518.3	0.000	
1C.	26.12	34.60	4.86		22.72	515.0	10.	26.12	34.60	22.72	515.0	0.052	
30.Δ	25.80	34.60			22.82	506.3	20.	25.96	34.60	22.77	510.5	0.104	
50.Δ	25.62	34.59			22.86	502.4	30.	25.80	34.60	22.82	506.3	0.155	
79.	23.99	34.54	5.01		23.32	460.1	50.	25.62	34.59	22.86	502.4	0.257	
101.	22.16	34.84	5.15		24.07	388.9	75.	24.29	34.53	23.22	469.0	0.379	
126.	21.24	35.07	4.88		24.50	348.8	100.	22.24	34.82	24.04	392.1	0.487	
152.	19.19	34.90	4.38		24.92	310.0	150.	19.39	34.92	24.88	313.1	0.645	
177.	16.16	34.57	4.01		25.40	264.1	200.	13.96	34.35	25.71	234.6	0.803	
191.	14.91	34.43	3.83		25.57	247.9	250.	10.25	34.19	26.29	179.0	0.907	
225.	11.56	34.19	3.67		26.06	201.0	300.	9.35	34.37	26.59	152.0	0.991	
252.	10.18	34.19	2.24		26.31	177.6	400.	7.80	34.43	26.87	125.5	1.131	
279.	9.40	34.22	2.58		26.46	163.2	500.	6.94	34.47	27.03	111.6	1.250	
303.	9.36	34.39	1.30		26.60	150.5	600.	6.07	34.47	27.15	100.9	1.358	
403.	7.74	34.42	0.68		26.88	125.2	700.	5.44	34.49	27.24	92.8	1.456	
503.	6.92	34.47	0.40		27.03	111.3	800.	4.97	34.51	27.31	86.3	1.546	
603.	6.04	34.47	0.53		27.15	100.7	1000.	4.16	34.53	27.42	76.6	1.711	
803.	4.95	34.51	0.78		27.31	86.0	1200.	3.53	34.57	27.51	67.8	1.857	
1005.	4.14	34.53	1.04		27.42	76.4	1500.	2.87	34.60	27.60	59.7	2.051	
1205.	3.52	34.57	1.28		27.51	67.6							
1505.	2.86	34.60	1.64		27.60	59.6							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 9, STATION 12, 17-28N LAT, 153-59W LONG, CCT. 7, 1964, C9C0 G.C.T.													
DRY BULB	25.0	WET BULB	22.6	WIND SPEED	18, DIR.	08	BAR.	18	WEATHER	02	VIS.	CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.06	34.45	4.77		22.62	523.6	0.	26.06	34.45	22.62	523.6	0.000	
10.	26.08	34.44	4.78		22.61	525.3	10.	26.08	34.44	22.61	525.3	0.053	
30.Δ	26.00	34.46			22.65	522.3	20.	26.06	34.44	22.61	525.0	0.106	
50.Δ	25.70	34.55			22.81	507.7	30.	26.00	34.46	22.65	522.3	0.158	
75.Δ	23.60	34.97			23.76	418.0	50.	25.70	34.55	22.81	507.7	0.262	
100.	22.50	35.07	5.10		24.15	381.4	75.	23.60	34.97	23.76	418.0	0.379	
126.	21.04	35.05	4.72		24.54	345.0	100.	22.50	35.07	24.15	381.4	0.480	
151.	19.90	35.00	4.54		24.81	320.4	150.	19.95	35.00	24.80	321.3	0.657	
175.	18.52	34.84	4.27		25.04	298.9	200.	16.56	34.61	25.34	270.7	0.806	
201.	16.47	34.60	4.03		25.35	269.6	250.	12.06	34.22	25.99	208.5	0.927	
225.	14.39	34.38	3.76		25.64	241.7	300.	10.40	34.26	26.33	177.1	1.024	
250.	12.06	34.22	3.61		25.95	208.5	400.	8.66	34.43	26.75	138.2	1.183	
275.	10.81	34.21	3.32		26.21	187.4	500.	7.62	34.47	26.94	121.3	1.314	
299.	10.42	34.26	2.77		26.32	177.5	600.	6.69	34.48	27.07	108.7	1.430	
397.	8.70	34.43	0.87		26.74	138.9	700.	5.87	34.49	27.19	98.1	1.534	
495.	7.67	34.47	0.56		26.93	122.0	800.	5.20	34.50	27.28	89.8	1.629	
593.	6.75	34.48	0.53		27.06	109.5	1000.	4.33	34.52	27.39	79.3	1.801	
788.	5.27	34.50	0.73		27.27	90.6	1200.	3.67	34.55	27.48	70.8	1.952	
983.	4.39	34.52	1.14		27.38	80.0							
1181.	3.75	34.55	1.25		27.48	71.7							
1402.	3.15	34.58	1.97		27.56	63.9							

CROMWELL 9, STATION 13, 18-54N LAT, 153-58W LONG, CCT. 7, 1964, 18C0 G.C.T.													
DRY BULB	24.4	WET BULB	20.1	WIND SPEED	19, DIR.	09	BAR.	18	WEATHER	02	VIS. 8	CLOUD TYPE 5, COVER 9	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.84	34.45	5.28		22.65	517.0	0.	25.84	34.45	22.69	517.0	0.000	
10.	26.12	34.45	4.84		22.60	525.8	10.	26.12	34.45	22.60	525.8	0.053	
30.Δ	26.04	34.45			22.63	524.2	20.	26.14	34.44	22.59	527.4	0.106	
50.Δ	25.80	34.58			22.80	508.5	30.	26.04	34.45	22.63	524.2	0.159	
77.	23.83	35.10	5.38		23.79	415.2	50.	25.80	34.58	22.80	508.5	0.263	
106.	22.74	35.20	5.18		24.18	378.8	75.	23.99	35.06	23.71	422.5	0.380	
127.	21.24	35.17	5.18		24.58	341.6	100.	22.97	35.21	24.12	384.5	0.481	
153.	19.94	34.97	4.60		24.77	323.6	150.	20.08	35.00	24.76	325.2	0.660	
178.	18.46	34.86	4.39		25.07	296.1	200.	16.82	34.71	25.35	269.7	0.810	
192.	17.6P	34.81	4.52		25.22	281.7	250.	12.44	34.23	25.92	215.1	0.932	
227.	13.79	34.33	4.13		25.73	233.2	300.	10.27	34.17	26.27	182.0	1.033	
254.	12.27	34.22	4.46		25.95	212.5	400.	7.80	34.15	26.66	146.0	1.198	
280.	11.20	34.19	3.64		26.12	196.5	500.	6.33	34.24	26.93	120.0	1.332	
294.	10.50	34.17	3.29		26.24	185.4	600.	5.74	34.35	27.10	105.4	1.446	
405.	7.74	34.15	2.44		26.67	145.1	700.	5.26	34.43	27.21	94.7	1.547	
506.	6.27	34.25	1.30		26.95	118.7	800.	4.83	34.48	27.30	86.8	1.639	
607.	5.72	34.36	0.88		27.10	104.6	1000.	4.14	34.51	27.40	77.9	1.806	
805.	4.79	34.48	0.90		27.31	86.2	1200.	3.54	34.57	27.51	68.1	1.954	
1011.	4.11	34.51	1.03		27.41	77.6	1500.	2.93	34.59	27.59	61.1	2.150	
1211.	3.51	34.57	1.25		27.52	67.6							
1511.	2.91	34.59	1.64		27.55	60.9							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.15

CROMWELL 9, STATION 14, 20-28N LAT, 153-56W LONG, CCT. 8, 1964, 03C0 G.C.T.													
DRY BULB	25.0	WET BULB	22.2	WIND SPEED	18, DIR.	09	BAR.	17	WEATHER	01	VIS. 8	CLOUD TYPE 8, COVER 1	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.04	34.87	4.91		22.54	492.7	0.	26.04	34.87	22.94	492.7	0.000	
9.Δ	26.04	34.87	4.80		22.54	493.1	10.	26.03	34.87	22.95	493.0	0.050	
30.Δ	25.86	34.86			22.95	489.3	20.	25.96	34.86	22.97	491.5	0.099	
50.Δ	25.72	34.86			23.04	486.0	30.	25.86	34.86	22.99	489.3	0.149	
75.Δ	24.20	34.85			23.49	443.6	50.	25.72	34.86	23.04	486.0	0.247	
97.	22.58	34.86	5.12		23.97	398.7	75.	24.20	34.85	23.49	443.6	0.364	
120.	21.05	34.92	5.85		24.44	354.5	100.	22.37	34.87	24.03	392.6	0.469	
145.	19.45	34.91	4.36		24.86	315.5	150.	19.25	34.91	24.91	310.4	0.646	
169.	18.42	34.88	4.45		25.09	293.4	200.	16.09	34.58	25.42	262.6	0.791	
182.	17.47	34.76	4.26		25.24	280.1	250.	12.94	34.27	25.86	221.7	0.913	
215.	15.02	34.45	3.85		25.56	249.4	300.	10.55	34.15	26.21	187.9	1.016	
240.	13.67	34.34	4.22		25.76	230.4	400.	8.11	34.15	26.61	150.3	1.187	
264.	11.97	34.18	4.14		25.98	210.1	500.	6.65	34.24	26.89	124.5	1.326	
288.	10.98	34.16	3.69		26.15	194.3	600.	5.16	34.26	27.09	104.6	1.441	
381.	8.39	34.13	2.91		26.55	155.9	700.	4.77	34.37	27.23	92.6	1.541	
474.	7.16	34.24	1.30		26.82	131.2	800.	4.60	34.47	27.32	84.7	1.630	
566.	5.42	34.23	0.98		27.04	109.9	1000.	3.95	34.52	27.43	74.6	1.792	
750.	4.78	34.44	0.76		27.28	88.4	1200.	3.40	34.56	27.52	66.9	1.935	
935.	4.14	34.51	0.99		27.40	77.3							
1119.	3.63	34.54	1.18		27.48	70.5							
1374.	3.00	34.58	1.63		27.57	61.9							

TEMPERATURE ERROR TERM AT 700. METERS IS 0.12

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 22.8		9, STATION WET BULB 21.1		15, 22- 2N LAT, 153-58W LCNG, OCT. WIND SPEED 18, DIR. 10		8, 1964, 1300 G.C.T. BAR. 19		WEATHER 02		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.14	35.09	4.88		23.35	450.4	0.	25.14	35.09	23.39	450.4	0.000	
9.	25.15	35.09	4.96		23.38	451.0	10.	25.15	35.09	23.39	451.0	0.045	
30.Δ	25.06	35.10			23.42	448.5	20.	25.11	35.10	23.40	449.9	0.091	
50.Δ	25.04	35.10			23.43	448.8	30.	25.06	35.10	23.42	448.5	0.136	
75.Δ	24.70	35.11			23.54	439.2	50.	25.04	35.10	23.43	448.8	0.226	
92.	22.98	35.19	5.31		24.10	385.6	75.	24.70	35.11	23.54	439.2	0.338	
100.Δ	22.80	35.19			24.16	381.0	100.	22.80	35.19	24.16	381.0	0.442	
114.	22.46	35.20	5.10		24.26	371.5	150.	21.64	35.29	24.56	344.6	0.624	
137.	21.95	35.26	4.94		24.45	354.3	200.	20.74	35.24	24.77	326.1	0.793	
159.	21.45	35.30	4.78		24.62	339.0	250.	17.53	34.80	25.25	280.8	0.946	
173.	21.26	35.31	4.76		24.68	333.7	300.	13.64	34.38	25.80	228.3	1.075	
204.	20.60	35.22	4.66		24.79	324.2	400.	9.37	34.09	26.37	174.6	1.278	
227.	18.99	35.01	4.59		25.05	299.7	500.	7.24	34.10	26.70	143.2	1.438	
252.	17.39	34.78	4.53		25.27	279.1	600.	5.99	34.20	26.94	119.8	1.571	
274.	15.43	34.56	4.58		25.56	251.9	700.	5.30	34.33	27.13	102.8	1.684	
366.	10.47	34.14	4.66		26.22	188.6	800.	4.80	34.41	27.26	91.1	1.782	
458.	8.03	34.08	3.34		26.57	155.5	1000.	4.04	34.50	27.41	77.3	1.952	
550.	6.49	34.14	1.70		26.83	130.4	1200.	3.49	34.55	27.50	68.6	2.100	
735.	5.15	34.37	0.77		27.18	98.1							
921.	4.28	34.47	1.08		27.36	81.8							
1093.	3.81	34.53	1.21		27.45	73.2							
1300.	3.28	34.56	1.40		27.53	66.2							

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 25.0		9, STATION WET BULB 22.1		16, 23-28N LAT, 154- 2W LCNG, OCT. WIND SPEED 14, DIR. 12		8, 1964, 2100 G.C.T. BAR. 22		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.34	35.05	4.91		23.30	459.1	0.	25.34	35.05	23.30	459.1	0.000	
10.Δ	25.33	35.05	4.84		23.30	459.2	10.	25.33	35.05	23.30	459.2	0.046	
30.Δ	25.33	35.05			23.30	460.0	20.	25.33	35.05	23.30	459.6	0.093	
50.Δ	25.33	35.05			23.30	460.8	30.	25.33	35.05	23.30	460.0	0.139	
75.Δ	24.70	35.07			23.51	442.1	50.	25.33	35.05	23.30	460.8	0.232	
101.	22.24	35.16	4.86		24.29	368.0	75.	24.70	35.07	23.51	442.1	0.345	
125.	21.35	35.18	4.88		24.55	343.7	100.	22.34	35.16	24.26	370.8	0.448	
153.	20.15	35.07	4.59		24.79	321.7	150.	20.30	35.09	24.77	324.1	0.623	
177.	18.71	34.94	4.48		25.07	296.3	200.	17.58	34.81	25.25	279.5	0.775	
192.	18.06	34.87	4.41		25.18	286.3	250.	14.18	34.42	25.72	235.3	0.905	
226.	15.82	34.60	4.46		25.50	256.0	300.	11.80	34.19	26.02	207.3	1.016	
253.	14.00	34.40	4.92		25.74	233.0	400.	9.17	34.08	26.39	172.2	1.208	
279.	13.17	34.36	4.88		25.88	220.1	500.	6.84	34.02	26.69	143.2	1.367	
303.	11.59	34.16	4.94		26.03	205.5	600.	5.48	34.11	26.94	119.9	1.500	
405.	9.13	34.09	4.72		26.41	170.9	700.	4.77	34.24	27.12	102.5	1.612	
506.	6.71	34.02	2.91		26.71	141.7	800.	4.38	34.36	27.26	89.8	1.710	
606.	5.43	34.12	1.33		26.95	118.7	1000.	3.90	34.50	27.42	76.0	1.877	
807.	4.36	34.37	0.67		27.27	89.1	1200.	3.37	34.55	27.52	66.9	2.022	
1008.	3.89	34.50	1.12		27.42	75.6							
1169.	3.41	34.54	1.39		27.50	68.2							
1382.	2.93	34.57	1.81		27.57	61.8							

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 23.8		9, STATION WET BULB 21.1		17, 23-26N LAT, 151- 6W LCNG, OCT. WIND SPEED 22, DIR. 35		9, 1964, 1300 G.C.T. BAR. 21		WEATHER 02		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.34	35.32			23.80	410.8	0.	24.34	35.32	23.80	410.8	0.000	
11.	24.34	35.33			23.81	410.5	10.	24.34	35.33	23.81	410.5	0.041	
30.Δ	24.34	35.32			23.80	412.0	20.	24.34	35.33	23.81	411.1	0.083	
50.Δ	24.34	35.32			23.80	412.8	30.	24.34	35.32	23.80	412.0	0.124	
74.	21.99	35.26			24.44	353.0	50.	24.34	35.32	23.80	412.8	0.207	
98.	20.98	35.27			24.72	326.6	75.	21.93	35.26	24.45	351.4	0.304	
122.	20.48	35.24			24.84	316.7	100.	20.93	35.27	24.74	325.5	0.389	
146.	19.98	35.23			24.96	305.6	150.	19.87	35.22	24.98	303.9	0.547	
170.	19.03	35.08			25.09	293.7	200.	17.01	34.75	25.34	271.1	0.692	
184.	18.08	34.91			25.20	283.6	250.	13.78	34.38	25.77	230.0	0.819	
217.	15.89	34.60			25.48	257.2	300.	11.49	34.23	26.10	198.9	0.927	
243.	14.16	34.41			25.72	235.3	400.	8.81	34.07	26.44	166.9	1.111	
267.	12.93	34.32			25.90	218.1	500.	6.62	34.05	26.74	138.1	1.265	
290.	11.85	34.25			26.05	203.4	600.	5.35	34.16	26.99	114.8	1.393	
385.	9.20	34.09			26.35	171.6	700.	4.76	34.28	27.15	99.6	1.501	
482.	6.94	34.04			26.69	143.0	800.	4.48	34.39	27.27	89.3	1.597	
578.	5.53	34.13			26.95	118.9	1000.	3.96	34.50	27.42	76.1	1.764	
770.	4.58	34.36			27.24	92.1	1200.	3.46	34.56	27.52	67.3	1.909	
962.	4.06	34.49			27.40	78.0							
1148.	3.58	34.54			27.48	70.1							
1423.	2.94	34.58			27.58	61.5							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 25.0		9, STATION WET BULB 22.0	18, 22- ON LAT, 151- WIND SPEED 18, DIR. 07	CM LCNG, OCT. 07	9, 1964, 2200 G.C.T. BAR. 21	WEATHER 01	VIS. 7	CLOUD TYPE 8, COVER 4				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
0.	25.58	34.93			23.13	474.8	0.	25.58	34.93	23.13	474.8	0.000
10.	25.51	34.93			23.15	473.1	10.	25.51	34.93	23.15	473.1	0.048
30. ^Δ	25.51	34.93			23.15	473.9	20.	25.50	34.93	23.16	473.2	0.095
50. ^Δ	25.51	34.93			23.15	474.7	30.	25.51	34.93	23.15	473.9	0.143
77.	23.31	35.17			23.99	395.6	50.	25.51	34.93	23.15	474.7	0.239
102.	22.04	35.19			24.37	360.5	75.	23.50	35.15	23.92	402.2	0.349
127.	21.33	35.24			24.61	338.9	100.	22.12	35.19	24.35	362.4	0.445
153.	20.51	35.22			24.81	320.0	150.	20.62	35.23	24.79	322.2	0.618
177.	19.20	35.04			25.02	301.0	200.	18.28	34.92	25.16	288.3	0.772
193.	18.75	34.99			25.10	294.2	250.	14.50	34.42	25.65	241.9	0.905
226.	16.18	34.61			25.43	263.2	300.	11.89	34.16	25.98	210.8	1.020
254.	14.24	34.39			25.68	238.7	400.	8.34	34.08	26.52	159.4	1.206
279.	12.81	34.24			25.86	221.9	500.	6.30	34.06	26.79	133.2	1.354
304.	11.73	34.15			26.00	208.8	600.	5.13	34.18	27.03	110.4	1.477
404.	8.23	34.08			26.54	157.6	700.	4.60	34.30	27.19	96.3	1.582
507.	6.20	34.06			26.81	131.8	800.	4.38	34.39	27.29	87.5	1.674
607.	5.07	34.19			27.05	109.0	1000.	3.86	34.51	27.43	74.8	1.839
808.	4.37	34.40			27.29	87.0	1200.	3.35	34.55	27.52	67.0	1.982
1010.	3.84	34.51			27.43	74.3						
1202.	3.34	34.55			27.52	66.9						
1437.	2.81	34.58			27.59	60.0						

CROMWELL DRY BULB 24.6		9, STATION WET BULB 21.8	19, 20-26N LAT, 150-59W WIND SPEED 18, DIR. C7	CM LCNG, OCT. C7	10, 1964, 0800 G.C.T. BAR. 19	WEATHER 02	VIS. 7	CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
1.	25.86	34.84			22.98	489.6	0.	25.86	34.84	22.98	489.6	0.000
11.	25.84	34.84			22.98	489.4	10.	25.84	34.84	22.98	489.4	0.049
30. ^Δ	25.82	34.84			22.99	489.6	20.	25.83	34.84	22.99	489.4	0.099
50. ^Δ	25.80	34.84			23.00	489.8	30.	25.82	34.84	22.99	489.6	0.148
74.	24.51	34.90			23.43	448.8	50.	25.80	34.84	23.00	489.8	0.247
98.	23.14	35.07			23.97	398.9	75.	24.45	34.91	23.46	446.5	0.364
122.	22.48	35.13			24.20	377.4	100.	23.08	35.08	23.99	396.8	0.471
147.	21.47	35.26			24.58	341.9	150.	21.33	35.25	24.61	339.1	0.656
171.	20.32	35.14			24.80	321.6	200.	18.96	35.01	25.06	298.0	0.817
185.	19.65	35.10			24.95	308.1	250.	15.39	34.52	25.54	252.9	0.956
218.	17.96	34.86			25.19	285.5	300.	11.83	34.18	26.01	208.2	1.072
244.	15.83	34.58			25.48	258.2	400.	8.51	34.11	26.52	159.8	1.257
269.	14.03	34.37			25.71	236.3	500.	6.94	34.23	26.84	129.1	1.403
293.	12.22	34.21			25.95	213.2	600.	6.01	34.33	27.05	110.4	1.524
391.	8.71	34.10			26.48	163.2	700.	5.43	34.41	27.18	98.1	1.630
489.	7.07	34.22			26.82	131.7	800.	5.01	34.47	27.27	89.8	1.725
586.	6.11	34.32			27.02	112.5	1000.	4.22	34.51	27.40	78.6	1.895
782.	5.09	34.46			27.26	91.2	1200.	3.62	34.55	27.49	70.6	2.046
979.	4.29	34.51			27.35	79.5						
1169.	3.74	34.54			27.47	72.2						
1428.	3.09	34.57			27.56	64.0						

CROMWELL DRY BULB 22.4		9, STATION WET BULB 21.1	20, 18-54N LAT, 150-58W WIND SPEED 20, DIR. C7	CM LCNG, OCT. C7	10, 1964, 1700 G.C.T. BAR. 17	WEATHER 21	VIS. 7	CLOUD TYPE 8, COVER 7				
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
0.	25.51	34.72			23.00	487.9	0.	25.51	34.72	23.00	487.9	0.000
11.	25.54	34.72			22.99	489.2	10.	25.54	34.72	22.99	489.1	0.049
30. ^Δ	25.54	34.72			22.99	489.9	20.	25.55	34.72	22.98	489.7	0.098
50. ^Δ	25.52	34.72			22.99	490.1	30.	25.54	34.72	22.99	489.9	0.148
75. ^Δ	25.50	34.72			23.00	490.6	50.	25.52	34.72	22.99	490.1	0.247
103.	22.89	35.07			24.04	392.2	75.	25.50	34.72	23.00	490.6	0.370
129.	21.86	35.22			24.44	354.5	100.	23.20	35.03	23.92	403.6	0.483
154.	21.05	35.24			24.66	332.6	150.	21.17	35.24	24.65	335.5	0.669
181.	20.15	35.18			24.88	314.8	200.	19.34	35.07	25.01	303.1	0.830
212.	18.61	34.96			25.11	293.6	250.	14.75	34.44	25.61	245.6	0.968
231.	16.83	34.71			25.35	270.6	300.	11.75	34.19	26.03	206.1	1.082
258.	13.95	34.34			25.71	236.5	400.	9.33	34.39	26.61	151.9	1.263
284.	12.58	34.23			25.90	218.4	500.	7.75	34.40	26.86	128.4	1.404
309.	11.32	34.18			26.10	199.4	600.	6.52	34.38	27.02	113.8	1.526
412.	9.22	34.43			26.66	147.4	700.	5.72	34.41	27.14	102.3	1.636
512.	7.58	34.39			26.88	126.8	800.	5.17	34.45	27.24	93.1	1.734
614.	6.38	34.38			27.04	112.1	1000.	4.39	34.52	27.38	80.5	1.910
817.	5.10	34.46			27.26	91.7	1200.	3.77	34.56	27.48	71.6	2.064
1014.	4.34	34.52			27.39	79.7	1500.	2.97	34.59	27.58	61.7	2.267
1218.	3.72	34.56			27.49	70.9						
1519.	2.93	34.59			27.59	61.2						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA					
CROMWELL 9, STATION 21, 17-29N LAT, 150-57W LONG, OCT. 11, 1964, 0200 G.C.T.															
DRY BULB 24.9			WET BULB 22.8		WIND SPEED 18, DIR. C5			BAR. 15		WEATHER 03		VIS. 8		CLOUD TYPE 9, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.94	34.65			22.81	505.6	0.	25.94	34.65	22.81	505.6	0.000			
11.	25.77	34.65			22.86	501.0	10.	25.78	34.65	22.86	501.4	0.051			
50.Δ	25.56	34.70			22.96	492.8	20.	25.70	34.65	22.89	498.8	0.101			
78.	25.38	34.78			23.08	482.8	30.	25.63	34.67	22.92	496.6	0.151			
98.	23.27	34.68			23.63	430.6	50.	25.56	34.70	22.96	492.8	0.251			
127.	21.88	35.00			24.27	370.8	75.	25.48	34.78	23.05	485.8	0.374			
154.	20.02	34.84			24.65	335.1	100.	23.15	34.70	23.68	425.9	0.489			
179.	17.61	34.63			25.10	292.7	150.	20.34	34.88	24.60	340.1	0.682			
194.	16.50	34.59			25.34	270.7	200.	15.96	34.54	25.42	262.9	0.834			
228.	13.41	34.29			25.78	228.6	250.	11.65	34.24	26.08	199.9	0.951			
254.	11.41	34.24			26.13	195.3	300.	10.69	34.49	26.45	165.2	1.043			
280.	11.05	34.38			26.30	179.2	400.	8.90	34.49	26.75	138.0	1.196			
306.	10.57	34.52			26.50	161.1	500.	7.95	34.49	26.90	124.9	1.328			
406.	8.81	34.47			26.75	137.8	600.	6.80	34.46	27.04	111.6	1.448			
508.	7.89	34.49			26.91	124.0	700.	5.97	34.46	27.15	101.7	1.554			
609.	6.70	34.46			27.06	110.5	800.	5.40	34.48	27.24	94.1	1.655			
811.	5.35	34.48			27.24	93.4	1000.	4.56	34.51	27.36	83.2	1.834			
1012.	4.52	34.51			27.36	82.7	1200.	3.81	34.55	27.47	72.8	1.992			
1212.	3.77	34.55			27.47	72.2	1500.	3.03	34.59	27.58	62.4	2.198			
1514.	3.00	34.59			27.58	62.1	2000.	2.20	34.64	27.69	51.3	2.487			
2011.	2.19	34.64			27.69	51.2	2500.	1.83	34.67	27.74	46.5	2.736			
2511.	1.83	34.67			27.74	46.4	3000.	1.63	34.69	27.77	43.8	2.968			
2909.	1.66	34.69			27.77	44.1	4000.	1.48	34.70	27.79	43.9	3.416			
4007.	1.48	34.70			27.75	43.9									
4999.	1.44	34.71			27.80	45.0									

CROMWELL 9, STATION 22, 15-59N LAT, 151- 2W LONG, OCT. 11, 1964, 1200 G.C.T.															
DRY BULB 24.4			WET BULB 21.8		WIND SPEED 02, DIR. 09			BAR. 17		WEATHER 01		VIS.		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	26.09	34.22			22.44	541.0	0.	26.09	34.22	22.44	541.0	0.000			
9.	26.08	34.22			22.44	541.1	10.	26.07	34.22	22.45	540.7	0.054			
30.Δ	25.78	34.28			22.58	528.7	20.	25.95	34.24	22.50	535.9	0.109			
50.Δ	25.42	34.36			22.75	513.1	30.	25.78	34.28	22.58	528.7	0.162			
67.	23.80	34.75			23.53	439.2	50.	25.42	34.36	22.75	513.1	0.267			
75.Δ	22.70	34.96			24.01	393.9	75.	22.70	34.96	24.01	393.9	0.382			
91.	21.86	35.06			24.32	364.6	100.	21.32	35.09	24.50	348.4	0.475			
113.	20.39	35.08			24.74	325.7	150.	16.30	34.60	25.39	264.2	0.629			
135.	18.26	34.85			25.11	290.6	200.	11.89	34.54	26.27	180.9	0.742			
156.	15.48	34.50			25.50	253.8	250.	11.05	34.70	26.55	154.9	0.826			
170.	13.72	34.32			25.74	231.0	300.	10.51	34.70	26.65	147.0	0.902			
199.	11.92	34.53			26.26	181.9	400.	9.43	34.65	26.79	134.6	1.044			
223.	11.48	34.68			26.46	163.5	500.	8.27	34.58	26.93	122.7	1.174			
245.	11.12	34.70			26.54	156.2	600.	7.31	34.54	27.03	113.5	1.294			
267.	10.82	34.70			26.59	151.4	700.	6.47	34.51	27.13	105.0	1.404			
352.	10.06	34.68			26.71	141.7	800.	5.83	34.51	27.21	97.4	1.506			
439.	8.91	34.62			26.86	129.0	1000.	4.77	34.53	27.35	84.1	1.690			
526.	8.02	34.57			26.95	120.4	1200.	3.93	34.55	27.46	73.8	1.850			
699.	6.48	34.51			27.12	105.1									
875.	5.42	34.52			27.27	92.1									
1054.	4.52	34.54			27.35	80.9									
1332.	3.50	34.57			27.52	68.4									

CROMWELL 9, STATION 23, 14-36N LAT, 151- 1W LONG, OCT. 11, 1964, 2000 G.C.T.															
DRY BULB 25.3			WET BULB 23.9		WIND SPEED 10, DIR. C4			BAR. 17		WEATHER 03		VIS. 7		CLOUD TYPE 6, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	26.50	33.95			22.11	572.7	0.	26.50	33.95	22.11	572.7	0.000			
10.	26.42	33.95			22.13	570.7	10.	26.42	33.95	22.13	570.7	0.058			
30.Δ	26.40	33.95			22.14	570.9	20.	26.40	33.95	22.14	570.6	0.115			
50.Δ	26.30	33.95			22.17	568.7	30.	26.40	33.95	22.14	570.9	0.173			
76.	18.63	34.43			24.70	327.9	50.	26.30	33.95	22.17	568.7	0.287			
101.	13.77	34.37			25.77	226.4	75.	18.98	34.41	24.60	337.6	0.402			
127.	11.65	34.28			26.12	193.7	100.	13.91	34.38	25.74	228.7	0.473			
152.	10.71	34.40			26.38	168.9	150.	10.75	34.39	26.36	170.6	0.573			
177.	10.37	34.47			26.45	158.4	200.	10.33	34.57	26.58	150.8	0.654			
192.	10.38	34.56			26.56	152.4	250.	9.43	34.51	26.69	141.4	0.728			
226.	9.97	34.55			26.63	147.0	300.	8.80	34.52	26.80	131.7	0.797			
253.	9.36	34.51			26.70	140.6	400.	7.65	34.49	26.95	118.6	0.923			
279.	9.05	34.53			26.76	134.7	500.	6.78	34.50	27.07	107.2	1.037			
304.	8.75	34.52			26.80	131.3	600.	6.00	34.50	27.18	97.9	1.141			
405.	7.60	34.49			26.95	118.0	700.	5.44	34.51	27.25	91.2	1.236			
507.	6.73	34.50			27.08	106.5	800.	5.01	34.52	27.31	86.0	1.326			
607.	5.95	34.50			27.19	97.3	1000.	4.24	34.54	27.42	76.9	1.491			
808.	4.98	34.52			27.32	85.6	1200.	3.55	34.58	27.52	67.4	1.637			
1010.	4.20	34.54			27.42	76.5	1500.	2.86	34.61	27.61	58.9	1.829			
1210.	3.52	34.58			27.52	66.9									
1512.	2.84	34.61			27.61	58.6									

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 9, STATION 24, 12-59N LAT, 150-59W LONG, OCT. 12, 1964, 0600 G.C.T.												
DRY BULB	26.1	WET BULB	23.3	WIND SPEED	05, DIR. 06	BAR.	1.0	WEATHER	02	VIS.	CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.47	34.14			22.26	558.2	0.	26.47	34.14	22.26	558.2	0.000
10.	26.39	34.29			22.40	545.4	10.	26.39	34.29	22.40	545.4	0.056
30. Δ	26.26	34.37			22.50	536.5	20.	26.34	34.34	22.45	540.7	0.110
50.	25.81	34.57			22.75	509.5	30.	26.26	34.37	22.50	536.5	0.165
75.	21.01	34.72			24.30	366.2	50.	25.81	34.57	22.79	509.5	0.270
99.	17.95	34.79			25.14	286.4	75.	21.01	34.72	24.30	366.2	0.380
124.	15.10	34.46			25.55	247.7	100.	17.84	34.78	25.16	284.6	0.462
148.	11.96	34.28			26.06	199.8	150.	11.77	34.27	26.08	197.2	0.584
172.	10.59	34.30			26.32	174.7	200.	10.82	34.63	26.54	155.1	0.672
186.	10.72	34.52			26.47	161.0	250.	10.39	34.69	26.66	144.5	0.748
219.	10.82	34.68			26.58	151.8	300.	9.59	34.65	26.76	135.3	0.818
245.	10.46	34.69			26.65	145.4	400.	8.14	34.57	26.93	120.2	0.947
271.	10.08	34.67			26.75	141.0	500.	7.15	34.54	27.06	109.3	1.063
295.	9.67	34.65			26.75	136.2	600.	6.30	34.54	27.17	99.0	1.168
393.	8.22	34.57			26.92	121.1	700.	5.62	34.54	27.26	91.3	1.265
492.	7.22	34.54			27.05	110.2	800.	5.08	34.54	27.32	85.2	1.354
591.	6.37	34.54			27.16	99.8	1000.	4.26	34.56	27.43	75.5	1.516
787.	5.14	34.54			27.32	86.0	1200.	3.64	34.59	27.52	67.7	1.662
984.	4.32	34.56			27.42	76.2						
1180.	3.71	34.59			27.51	68.3						
1478.	3.02	34.61			27.59	60.6						

CROMWELL 9, STATION 25, 11-27N LAT, 150-54W LONG, OCT. 12, 1964, 1600 G.C.T.												
DRY BULB	25.8	WET BULB	23.8	WIND SPEED	12, DIR. 05	BAR.	1.5	WEATHER	01	VIS.	8	CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.89	33.65			21.76	606.1	0.	26.89	33.65	21.76	606.1	0.000
10.	26.84	33.66			21.78	604.3	10.	26.84	33.66	21.78	604.3	0.061
20. Δ	26.80	33.68			21.81	602.0	20.	26.80	33.68	21.81	602.0	0.122
30. Δ	26.60	33.71			21.90	594.2	30.	26.60	33.71	21.90	594.2	0.184
50. Δ	20.50	34.13			23.99	394.9	50.	20.50	34.13	23.99	394.9	0.282
77.	13.62	34.34			25.78	225.0	75.	14.02	34.33	25.69	233.4	0.361
102.	11.44	34.37			26.22	182.7	100.	11.51	34.37	26.21	184.0	0.413
127.	11.17	34.54			26.41	166.0	150.	11.03	34.66	26.52	155.4	0.499
153.	11.01	34.67			26.54	154.3	200.	10.46	34.72	26.67	142.5	0.574
178.	10.66	34.70			26.62	146.6	250.	10.09	34.70	26.72	138.7	0.645
193.	10.57	34.72			26.65	143.9	300.	9.40	34.66	26.81	131.0	0.713
226.	10.09	34.69			26.71	138.7	400.	8.60	34.62	26.91	123.2	0.841
254.	10.09	34.70			26.72	138.6	500.	7.61	34.56	27.01	114.3	0.961
280.	9.63	34.67			26.78	133.8	600.	6.70	34.55	27.13	103.7	1.071
305.	9.35	34.66			26.82	130.5	700.	5.98	34.55	27.22	95.5	1.172
406.	8.56	34.62			26.91	122.9	800.	5.41	34.55	27.29	88.9	1.265
508.	7.53	34.56			27.02	113.5	1000.	4.45	34.56	27.41	78.1	1.434
609.	6.62	34.55			27.14	102.8	1200.	3.80	34.58	27.49	70.3	1.584
810.	5.36	34.55			27.30	88.4	1500.	3.05	34.61	27.59	61.2	1.784
1011.	4.41	34.56			27.41	77.6	2000.	2.28	34.65	27.69	51.6	2.071
1213.	3.76	34.58			27.50	69.9	2500.	1.90	34.67	27.74	47.4	2.323
1511.	3.03	34.61			27.59	60.9	3000.	1.73	34.68	27.76	46.1	2.561
2010.	2.27	34.65			27.69	51.4	4000.	1.46	34.70	27.79	43.6	3.021
2509.	1.90	34.67			27.74	47.3						
3006.	1.73	34.68			27.76	46.1						
4003.	1.46	34.70			27.75	43.6						

CROMWELL 9, STATION 26, 10-1N LAT, 148-2W LONG, OCT. 13, 1964, 1100 G.C.T.												
DRY BULB	26.0	WET BULB	24.0	WIND SPEED	12, DIR. 09	BAR.	1.5	WEATHER	01	VIS.	CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.58	33.14	4.92		21.47	633.5	0.	26.58	33.14	21.47	633.5	0.000
9.	26.61	33.14	4.69		21.46	634.7	10.	26.44	33.18	21.55	626.7	0.063
30. Δ	21.70	34.25			23.75	416.6	20.	24.41	33.67	22.54	532.6	0.122
48.	18.34	34.66	4.29		24.95	303.4	30.	21.70	34.25	23.75	416.6	0.170
72.	13.75	34.36	2.91		25.76	226.0	50.	17.90	34.64	25.04	294.2	0.241
96.	12.29	34.55	0.83		26.20	184.7	75.	13.46	34.37	25.83	219.5	0.306
118.	11.72	34.69	0.39		26.42	164.6	100.	12.16	34.58	26.25	180.2	0.356
142.	11.11	34.74	0.27		26.57	150.6	150.	10.97	34.74	26.60	148.5	0.439
165.	10.77	34.73	0.42		26.63	146.0	200.	10.43	34.73	26.69	140.8	0.512
179.	10.62	34.73	0.43		26.65	143.7	250.	9.95	34.71	26.76	135.1	0.582
211.	10.33	34.73	0.40		26.70	139.5	300.	9.52	34.69	26.81	130.6	0.649
236.	10.09	34.72	0.36		26.74	136.7	400.	8.94	34.66	26.88	125.5	0.778
259.	9.86	34.71	0.43		26.77	134.1	500.	8.27	34.63	26.96	119.5	0.902
283.	9.64	34.70	0.56		26.80	131.8	600.	7.47	34.59	27.05	112.2	1.019
377.	9.08	34.67	0.59		26.87	126.8	700.	6.57	34.56	27.15	102.8	1.127
471.	8.47	34.64	0.79		26.94	121.2	800.	5.81	34.55	27.24	94.3	1.227
564.	7.80	34.60	0.47		27.01	115.5	1000.	4.80	34.57	27.38	82.0	1.405
753.	6.11	34.55	0.58		27.20	97.7	1200.	3.99	34.58	27.48	72.5	1.562
942.	5.07	34.56	0.99		27.34	85.3						
1132.	4.25	34.58	1.33		27.45	75.3						
1377.	3.44	34.59	1.68		27.54	66.5						

TEMPERATURE ERROR TERM AT 20 METERS IS 0.33
 SALINITY ERROR TERM AT 20 METERS IS 0.09

APROM BT DATA

Table 2.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA				
CROMWELL 9, STATION 27, 11-28N LAT, 147-59W LONG, OCT. 13, 1964, 2000 G.C.T.		WET BULB 24.1		WIND SPEED 16, DIR. 07		BAR. 16 WEATHER 02			VIS. 8		CLOUD TYPE 8, COVER 3		
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.81	33.31	4.70		21.53	628.2	0.	26.81	33.31	21.53	628.2	0.000	
10.	26.81	33.31	4.79		21.53	628.6	10.	26.81	33.31	21.53	628.6	0.063	
20.	26.74	33.31			21.55	626.8	20.	26.74	33.31	21.55	626.8	0.127	
30.Δ	24.60	33.30			22.20	565.0	30.	24.60	33.30	22.20	565.0	0.187	
51.	16.85	33.43	3.55		24.37	358.6	50.	17.22	33.41	24.27	368.1	0.281	
77.	12.99	34.55	0.87		26.07	197.4	75.	13.12	34.46	25.97	206.4	0.353	
102.	11.99	34.75	0.27		26.42	164.7	100.	12.01	34.75	26.41	164.8	0.400	
126.	11.53	34.77	0.27		26.52	155.5	150.	11.18	34.76	26.58	150.4	0.479	
153.	11.14	34.76	0.30		26.58	149.9	200.	10.60	34.73	26.65	144.1	0.553	
178.	10.89	34.75	0.40		26.62	146.9	250.	10.18	34.72	26.72	138.4	0.624	
193.	10.68	34.73	0.53		26.64	145.1	300.	9.78	34.71	26.78	133.7	0.693	
226.	10.37	34.73	0.59		26.70	140.5	400.	9.17	34.67	26.85	128.5	0.825	
254.	10.15	34.72	0.58		26.73	138.1	500.	8.25	34.62	26.96	119.6	0.951	
279.	9.94	34.71	0.47		26.76	135.9	600.	7.26	34.57	27.07	110.0	1.067	
304.	9.75	34.71	0.49		26.75	133.3	700.	6.41	34.55	27.17	100.9	1.173	
405.	9.14	34.67	0.34		26.86	128.3	800.	5.71	34.55	27.25	92.9	1.271	
506.	8.19	34.62	0.44		26.97	119.0	1000.	4.78	34.56	27.37	82.2	1.448	
607.	7.19	34.57	0.42		27.07	109.4	1200.	4.10	34.58	27.46	74.1	1.607	
808.	5.66	34.55	0.84		27.26	92.3	1500.	3.29	34.61	27.57	64.2	1.817	
1010.	4.74	34.56	1.00		27.38	81.8							
1211.	4.07	34.58	1.33		27.47	73.7							
1511.	3.27	34.61	1.68		27.57	63.9							

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA				
CROMWELL 9, STATION 28, 12-58N LAT, 147-59W LONG, OCT. 14, 1964, 0500 G.C.T.		WET BULB 23.7		WIND SPEED 19, DIR. 07		BAR. 16 WEATHER 02			VIS. 7		CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.55	33.66	4.87		21.87	595.1	0.	26.55	33.66	21.87	595.1	0.000	
10.	26.57	33.66	4.84		21.87	596.1	10.	26.57	33.66	21.87	596.1	0.060	
20.Δ	26.50	33.66			21.89	594.4	20.	26.50	33.66	21.89	594.4	0.120	
30.Δ	26.00	33.77			22.13	571.9	30.	26.00	33.77	22.13	571.9	0.179	
50.	19.69	34.60	4.74		24.56	340.6	50.	19.69	34.60	24.56	340.6	0.271	
77.	15.23	34.45	3.90		25.52	249.8	75.	15.46	34.49	25.49	252.1	0.345	
100.	12.16	34.33	2.04		26.06	198.6	100.	12.16	34.33	26.06	198.6	0.402	
124.	11.58	34.57	0.57		26.35	171.0	150.	11.36	34.73	26.52	156.0	0.491	
150.	11.36	34.73	0.35		26.52	156.0	200.	10.59	34.71	26.64	145.4	0.567	
174.	10.91	34.72	0.37		26.59	149.3	250.	10.02	34.69	26.73	138.1	0.639	
189.	10.72	34.71	0.28		26.62	147.1	300.	9.41	34.65	26.80	132.1	0.707	
222.	10.33	34.70	0.26		26.68	141.9	400.	8.54	34.62	26.91	122.5	0.835	
248.	10.04	34.69	0.33		26.72	138.4	500.	7.74	34.59	27.01	114.4	0.955	
274.	9.76	34.68	0.32		26.76	135.0	600.	6.83	34.56	27.12	104.9	1.066	
298.	9.43	34.65	0.36		26.79	132.3	700.	6.09	34.54	27.20	97.2	1.168	
396.	8.57	34.62	0.33		26.91	122.8	800.	5.51	34.54	27.27	90.9	1.263	
496.	7.78	34.59	0.41		27.01	114.8	1000.	4.73	34.56	27.38	81.5	1.437	
595.	6.87	34.56	0.58		27.11	105.3	1200.	3.96	34.58	27.48	72.4	1.593	
793.	5.54	34.54*	0.79		27.27	91.3							
993.	4.76	34.56	1.06		27.38	81.9							
1190.	3.98	34.58	2.23		27.48	72.4							
1380.	3.34	34.59	1.82		27.55	65.3							

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA				
CROMWELL 9, STATION 29, 14-29N LAT, 147-58W LONG, OCT. 14, 1964, 1400 G.C.T.		WET BULB 22.4		WIND SPEED 20, DIR. 06		BAR. 16 WEATHER 02			VIS. 8		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	26.36	33.78	4.86		22.02	580.8	0.	26.36	33.78	22.02	580.8	0.000	
11.	26.37	33.78	4.91		22.02	581.5	10.	26.37	33.78	22.02	581.5	0.059	
30.Δ	26.26	33.78			22.06	579.0	20.	26.53	33.74	21.94	589.5	0.118	
52.	22.00	34.52	4.84		23.87	405.9	30.	26.26	33.78	22.06	579.0	0.176	
78.	18.45	34.68	4.60		24.93	305.5	50.	22.46	34.45	23.69	423.3	0.277	
103.	14.88	34.38	3.29		25.54	248.3	75.	18.82	34.69	24.85	313.4	0.370	
128.	12.22	34.20	3.50		25.95	209.9	100.	15.29	34.42	25.48	253.6	0.442	
154.	10.86	34.27	2.47		26.25	181.1	150.	11.00	34.25	26.21	185.0	0.552	
179.	10.34	34.41	1.54		26.45	162.5	200.	10.23	34.52	26.56	152.7	0.637	
194.	10.30	34.51	1.00		26.54	154.8	250.	9.94	34.63	26.69	141.6	0.711	
228.	9.91	34.55	0.65		26.64	146.1	300.	9.30	34.61	26.78	133.4	0.781	
255.	9.95	34.64	0.30		26.70	140.7	400.	8.29	34.57	26.91	122.2	0.910	
273.*	9.80*	34.64	0.28		26.72	138.6	500.	7.32	34.54	27.03	112.0	1.028	
281.	9.65	34.63	0.33		26.74	137.0	600.	6.43	34.53	27.15	101.6	1.136	
306.	9.19	34.60	0.37		26.79	132.3	700.	5.72	34.51	27.22	94.6	1.235	
406.	8.25	34.57	0.39		26.92	121.8	800.	5.13	34.52	27.30	87.6	1.327	
508.	7.23	34.54	0.41		27.05	110.6	1000.	4.34	34.55	27.41	77.5	1.494	
516.*	7.13	34.55	0.53		27.07	108.6	1200.	3.70	34.58	27.50	69.0	1.642	
608.	6.38	34.52	0.58		27.15	101.6							
811.	5.07	34.52	0.83		27.31	86.8							
1012.	4.30	34.55	1.08		27.42	77.0							
1200.**	3.70**	34.58**			27.50	69.0							

TEMPERATURE ERROR TERM AT 20. METERS IS 0.13

ΔFROM BT DATA
 *INTERPOLATED DATA
 **EXTRAPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
9, STATION 30, 16- ON LAT, 147-57W LONG, OCT. 14, 1964, 2300 G.C.T.												
CROMWELL DRY BULB 24.8		WET BULB 21.9	WIND SPEED 17, DIR. 08	BAR. 17	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 4					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.29	33.84	4.82		22.09	574.4	0.	26.29	33.84	22.09	574.4	0.000
9.	26.25	33.84	4.84		22.10	573.5	10.	26.25	33.84	22.10	573.5	0.058
20.	26.23	33.84			22.11	573.4	20.	26.23	33.84	22.11	573.4	0.116
30.	26.20	33.85			22.13	572.1	30.	26.20	33.85	22.13	572.1	0.173
50.	23.80	34.28			23.18	472.4	50.	23.80	34.28	23.18	472.4	0.278
71.	20.27	34.72	5.12		24.50	347.1	75.	19.58	34.70	24.66	331.3	0.380
93.	16.66	34.48	3.96		25.21	279.2	100.	15.69	34.42	25.39	262.7	0.455
117.	13.77	34.31	3.18		25.72	231.3	150.	11.89	34.32	26.10	195.6	0.570
141.	12.27	34.30	1.94		26.01	203.8	200.	11.12	34.62	26.47	161.2	0.660
164.	11.49	34.40	1.74		26.24	182.9	250.	9.44	34.42	26.62	148.2	0.738
176.	11.33	34.54	0.83		26.38	170.0	300.	9.39	34.55	26.72	138.9	0.810
207.	11.00	34.60	0.74		26.48	160.5	400.	8.11	34.50	26.88	124.8	0.943
232.	9.97	34.48	0.88		26.57	152.3	500.	6.90	34.45	27.02	112.7	1.063
255.	9.35	34.42	1.11		26.63	147.1	600.	6.07	34.47	27.14	101.2	1.171
278.	9.50	34.52	0.44		26.68	142.6	700.	5.44	34.49	27.24	92.3	1.269
372.	8.49	34.52	0.32		26.84	128.5	800.	4.96	34.52	27.32	85.3	1.359
466.	7.25	34.45	0.40		26.97	116.9	1000.	4.25	34.54	27.42	77.0	1.523
605.	6.04	34.47	0.52		27.15	100.7	1200.	3.57	34.57	27.51	68.3	1.670
804.	4.94	34.52	0.79		27.32	85.1	1500.	2.88	34.60	27.60	59.8	1.865
1005.	4.23	34.54	0.98		27.42	76.8						
1204.	3.56	34.57	1.24		27.51	68.1						
1506.	2.87	34.60	1.58		27.60	59.7						

9, STATION 31, 17-29N LAT, 148- 3W LONG, OCT. 15, 1964, 0900 G.C.T.												
CROMWELL DRY BULB 25.0		WET BULB 22.2	WIND SPEED 26, DIR. 07	BAR. 18	WEATHER 02	VIS. 8	CLOUD TYPE , COVER					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	25.71	34.29	4.77		22.61	524.8	0.	25.71	34.29	22.61	524.7	0.000
8.	25.75	34.29	4.82		22.60	526.2	10.	25.74	34.29	22.60	526.3	0.053
20.	25.60	34.29			22.64	522.3	20.	25.60	34.29	22.64	522.3	0.106
30.	25.30	34.36			22.79	508.8	30.	25.30	34.36	22.79	508.8	0.158
50.	25.28	34.37			22.80	508.3	50.	25.28	34.37	22.80	508.3	0.200
75.	23.70	34.80			23.60	433.1	75.	23.70	34.80	23.60	433.1	0.379
99.	22.54	35.05	5.05		24.12	383.9	100.	22.49	35.06	24.14	382.3	0.481
123.	21.38	35.11	4.89		24.49	349.5	150.	19.76	35.03	24.87	314.6	0.657
148.	19.99	35.06	4.66		24.83	318.2	200.	15.04	34.46	25.56	249.0	0.799
172.	17.24	34.69	4.14		25.24	279.6	250.	10.83	34.17	26.18	190.3	0.910
186.	16.34	34.60	4.18		25.38	266.2	300.	9.42	34.28	26.51	159.6	0.998
219.	13.16	34.27	3.92		25.81	224.9	400.	8.47	34.48	26.82	131.5	1.145
245.	11.11	34.17	3.75		26.13	194.9	500.	7.23	34.46	26.98	116.5	1.270
270.	10.00	34.19	3.23		26.34	175.0	600.	6.40	34.46	27.10	106.0	1.382
294.	9.50	34.26	2.27		26.48	162.1	700.	5.73	34.48	27.20	97.0	1.485
391.	8.59	34.48	0.88		26.80	133.4	800.	5.20	34.50	27.29	89.4	1.579
489.	7.34	34.46	0.84		26.97	117.8	1000.	4.41	34.54	27.40	78.9	1.750
585.	6.51	34.46	0.75		27.08	107.5	1200.	3.78	34.56	27.48	71.3	1.902
780.	5.29	34.50	0.63		27.27	90.8						
975.	4.50	34.54	0.86		27.39	79.9						
1171.	3.87	34.55	1.10		27.46	73.1						
1467.	3.16	34.59	1.48		27.57	63.7						

9, STATION 32, 18-58N LAT, 147-59W LONG, OCT. 15, 1964, 1800 G.C.T.												
CROMWELL DRY BULB 23.9		WET BULB 22.0	WIND SPEED 18, DIR. 06	BAR. 18	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 7					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.92	35.02	5.03		23.40	449.0	0.	24.92	35.02	23.40	449.0	0.000
10.	24.87	35.02	4.98		23.42	448.0	10.	24.87	35.02	23.42	448.0	0.045
30.	24.80	35.02			23.44	446.8	20.	24.84	35.02	23.43	447.4	0.090
50.	24.68	35.03			23.48	443.4	30.	24.80	35.02	23.44	446.8	0.135
77.	23.12	35.13	5.30		24.02	393.2	50.	24.68	35.03	23.48	443.4	0.225
102.	21.85	35.20	5.23		24.43	354.7	75.	23.26	35.12	23.97	397.6	0.331
125.	21.15	35.26	5.01		24.67	332.7	100.	21.94	35.19	24.40	357.3	0.426
154.	20.23	35.16	4.78		24.84	317.3	150.	20.37	35.18	24.82	319.2	0.596
178.	19.17	35.07	4.57		25.05	298.1	200.	17.99	34.88	25.20	284.4	0.749
192.	18.47	34.96	4.66		25.14	289.5	250.	14.30	34.37	25.66	241.1	0.881
226.	16.19	34.59	4.55		25.41	264.8	300.	10.72	34.08	26.13	195.8	0.991
254.	13.98	34.34	4.66		25.70	237.0	400.	7.28	34.03	26.64	147.2	1.164
279.	12.08	34.16	4.59		25.94	214.0	500.	6.45	34.23	26.91	122.3	1.300
304.	10.48	34.07	4.24		26.16	192.6	600.	5.77	34.36	27.10	105.0	1.415
405.	7.21	34.04	2.77		26.66	145.7	700.	5.26	34.44	27.22	94.0	1.516
507.	6.44	34.25	0.99		26.92	121.0	800.	4.87	34.49	27.30	86.7	1.607
608.	5.72	34.37	0.66		27.11	103.9	1000.	4.15	34.53	27.47	76.6	1.772
810.	4.84	34.49	0.72		27.31	86.1	1200.	3.58	34.56	27.50	69.1	1.920
1010.	4.12	34.53	0.90		27.42	76.2	1500.	2.83	34.59	27.60	59.9	2.116
1210.	3.55	34.56	1.14		27.50	68.8						
1512.	2.80	34.59	1.54		27.60	59.6						

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL DRY BULB 24.4		9, STATION 33, 20-29N LAT, 147-59W LONG, OCT. 16, 1964, 0300 G.C.T. WET BULB 22.2		WIND SPEED 22, DIR. 08 BAR. 17			WEATHER 03		VIS. 6		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	24.50	35.03	4.94		23.54	436.3	0.	24.50	35.03	23.54	436.2	0.000
10.	24.54	35.02	4.94		23.52	438.5	10.	24.54	35.02	23.52	438.5	0.044
30.Δ	24.48	35.03			23.54	436.9	20.	24.53	35.03	23.52	438.6	0.088
50.Δ	24.26	35.07			23.64	428.5	30.	24.48	35.03	23.54	436.9	0.132
75.	23.90	35.09			23.76	417.8	50.	24.26	35.07	23.64	428.5	0.219
94.	22.96	35.13	5.22		24.06	389.5	75.	23.90	35.09	23.76	417.8	0.326
117.	21.74	35.09	5.23		24.38	360.2	100.	22.63	35.12	24.15	381.4	0.427
142.	20.77	35.15	4.94		24.67	331.4	150.	20.58	35.17	24.76	325.2	0.605
164.	20.09	35.15	4.86		24.87	314.8	200.	17.18	34.71	25.26	278.0	0.757
178.	19.05	34.97	4.43		25.00	302.4	250.	12.77	34.23	25.86	221.3	0.883
210.	16.26	34.59	4.34		25.39	265.9	300.	10.37	34.12	26.22	186.7	0.986
234.	13.92	34.32	3.65		25.70	236.7	400.	7.66	34.07	26.62	149.5	1.153
258.	12.29	34.20	3.72		25.93	214.4	500.	6.01	34.14	26.90	123.0	1.295
281.	11.10	34.15	4.28		26.12	197.0	600.	5.55	34.29	27.07	107.2	1.409
375.	8.31	34.08	3.44		26.53	158.3	700.	5.12	34.39	27.20	96.0	1.512
469.	6.28	34.10	1.86		26.83	129.4	800.	4.74	34.45	27.29	88.1	1.605
563.	5.73	34.25	0.91		27.02	112.3	1000.	4.02	34.51	27.42	76.5	1.771
752.	4.92	34.42	0.76		27.25	91.7	1200.	3.42	34.55	27.51	67.7	1.917
926.	4.30	34.49	1.00		27.37	80.6						
1046.	3.86	34.52	1.87		27.44	74.1						
1252.	3.29	34.56	1.28		27.53	66.0						

CROMWELL DRY BULB 23.6		9, STATION 34, 22- ON LAT, 147-59W LONG, OCT. 16, 1964, 1300 G.C.T. WET BULB 21.3		WIND SPEED 16, DIR. 10 BAR. 19			WEATHER 02		VIS.		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.79	34.96	4.80		23.40	449.6	0.	24.79	34.96	23.40	449.6	0.000
8.	24.80	34.96	4.88		23.39	450.2	10.	24.78	34.97	23.40	449.4	0.045
42.	24.14	35.05	4.95		23.66	426.2	20.	24.64	34.99	23.46	444.0	0.090
64.	23.60	35.04	5.07		23.81	412.6	30.	24.45	35.02	23.54	436.9	0.135
84.	22.66	35.20	5.17		24.20	375.8	50.	23.98	35.04	23.70	422.8	0.221
105.	21.82	35.23	5.06		24.46	351.8	75.	23.10	35.13	24.02	392.9	0.324
127.	20.98	35.23	4.86		24.69	330.5	100.	22.01	35.23	24.41	356.7	0.418
149.	20.40	35.19	4.69		24.82	319.3	150.	20.36	35.19	24.83	318.5	0.589
161.	19.91	35.15	4.68		24.92	310.1	200.	18.00	34.86	25.18	285.9	0.741
188.	18.69	34.96	4.59		25.09	294.7	250.	14.79	34.42	25.59	247.7	0.875
212.	17.28	34.76	4.53		25.28	276.7	300.	11.88	34.15	25.97	211.3	0.991
234.	15.98	34.59	4.46		25.46	260.4	400.	8.17	34.05	26.52	159.1	1.178
254.	14.49	34.38	4.50		25.62	244.5	500.	6.36	34.09	26.81	131.5	1.325
339.	10.24	34.10	3.87		26.23	187.1	600.	5.30	34.22	27.05	109.3	1.446
426.	7.53	34.05	2.90		26.62	149.8	700.	5.01	34.37	27.19	96.1	1.550
488.	6.53	34.08	2.08		26.78	134.5	800.	4.60	34.45	27.30	86.2	1.642
605.	5.26	34.23	0.82		27.06	108.4	1000.	3.89	34.52	27.43	74.4	1.805
726.	4.98	34.40	0.68		27.22	93.6	1200.	3.34	34.56	27.52	66.2	1.947
830.	4.44	34.46	0.79		27.33	83.6						
1018.	3.85	34.52	1.15		27.44	73.8						
1200.**	3.34**	34.56**			27.52	66.2						

CROMWELL DRY BULB 23.3		9, STATION 35, 23-31N LAT, 148- ON LONG, OCT. 16, 1964, 2200 G.C.T. WET BULB 20.6		WIND SPEED 18, DIR. 09 BAR. 21			WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	24.74	35.06	4.94		23.49	441.0	0.	24.74	35.06	23.49	441.0	0.000
10.	24.75	35.06	4.98		23.48	441.7	10.	24.75	35.06	23.48	441.7	0.044
30.Δ	24.68	35.06			23.50	440.4	20.	24.72	35.06	23.49	441.3	0.089
50.Δ	24.62	35.07			23.53	438.8	30.	24.68	35.06	23.50	440.4	0.133
75.	24.00	35.11			23.75	419.2	50.	24.62	35.07	23.53	438.8	0.222
100.	22.15	35.24	5.14		24.38	359.7	75.	24.00	35.11	23.75	419.2	0.330
124.	21.36	35.26	5.04		24.61	338.2	100.	22.15	35.24	24.38	359.7	0.428
150.	20.67	35.25	5.01		24.79	321.9	150.	20.67	35.25	24.79	321.9	0.600
173.	19.80	35.16	4.86		24.96	307.1	200.	17.88	34.85	25.20	284.1	0.753
188.	18.59	34.95	4.72		25.11	293.0	250.	14.96	34.49	25.61	246.2	0.886
221.	16.79	34.71	4.61		25.36	269.4	300.	11.95	34.19	25.99	209.7	1.001
247.	15.22	34.52	4.74		25.57	249.5	400.	8.63	34.05	26.45	166.1	1.191
272.	13.14	34.29	4.80		25.83	224.5	500.	6.51	34.03	26.74	138.0	1.344
297.	12.07	34.20	4.91		25.97	211.3	600.	5.21	34.12	26.98	115.8	1.473
396.	8.74	34.05	4.34		26.44	167.5	700.	4.68	34.26	27.14	100.3	1.582
496.	6.58	34.03	2.54		26.73	139.0	800.	4.49	34.39	27.27	89.3	1.678
593.	5.26	34.11	1.23		26.96	117.1	1000.	4.01	34.50	27.41	76.8	1.846
792.	4.51	34.38	0.77		27.26	90.0	1200.	3.52	34.56	27.50	68.5	1.993
990.	4.04	34.50	1.08		27.41	77.3						
1188.	3.53	34.54	1.26		27.49	69.8						
1484.	2.84	34.58	1.67		27.59	60.7						

ΔFROM BT DATA
**EXTRAPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL DRY BULB 23.9		9, STATION WET BULB 20.8		36, 25- ON LAT, 147-56W LONG, OCT. 17, 1964, 0700 G.C.T.			WIND SPEED 15, DIR. 11		BAR. 21	WEATHER 01	VIS.	CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.01	35.39	5.07		23.95	396.4	0.	24.01	35.39	23.95	396.4	0.000	
9. Δ	23.99	35.39	5.07		23.96	396.1	10.	23.99	35.39	23.96	396.1	0.040	
30.	23.90	35.38			23.98	395.2	20.	23.95	35.39	23.97	395.7	0.080	
50. Δ	23.78	35.37			24.01	393.3	30.	23.90	35.38	23.98	395.2	0.120	
75.	21.58	35.25	5.41		24.54	342.9	50.	23.78	35.37	24.01	393.3	0.199	
99.	20.83	35.30	5.30		24.79	320.5	75.	21.58	35.25	24.54	342.9	0.292	
123.	20.29	35.29	5.10		24.92	308.3	100.	20.29	35.30	24.79	319.9	0.375	
149.	19.64	35.18	5.07		25.01	300.8	150.	19.64	35.17	25.02	300.4	0.532	
172.	18.75	35.03	4.90		25.13	290.5	200.	18.75	35.03	25.13	290.5	0.676	
186.	18.11	34.92	4.86		25.20	283.6	250.	18.11	34.92	25.20	283.6	0.806	
219.	16.02	34.60	4.74		25.45	260.1	300.	16.02	34.60	25.45	260.1	0.918	
246.	14.47	34.42	4.80		25.66	241.0	400.	14.47	34.42	25.66	241.0	1.109	
271.	13.13	34.27	4.83		25.82	225.7	500.	13.13	34.27	25.82	225.7	1.264	
294.	12.00	34.17	4.93		25.96	212.1	600.	12.00	34.17	25.96	212.1	1.395	
391.	9.03	34.06	4.49		26.40	171.2	700.	9.03	34.06	26.40	171.2	1.506	
491.	6.78	34.02	2.80		26.70	142.4	800.	6.78	34.02	26.70	142.4	1.604	
587.	5.51	34.11	1.23		26.93	120.2	1000.	5.51	34.11	26.93	120.2	1.776	
783.	4.48	34.33	0.53		27.22	93.2	1200.	4.48	34.33	27.22	93.2	1.926	
977.	3.95	34.45	0.92		27.38	79.8		3.95	34.45	27.38	79.8		
1171.	3.58	34.53	1.22		27.48	71.0		3.58	34.53	27.48	71.0		
1464.	2.91	34.57	1.54		27.57	62.1		2.91	34.57	27.57	62.1		

CROMWELL DRY BULB 22.6		9, STATION WET BULB 20.2		37, 26-32N LAT, 148- 0W LONG, OCT. 17, 1964, 1600 G.C.T.			WIND SPEED 08, DIR. 15		BAR. 19	WEATHER 02	VIS.	CLOUD TYPE COVER	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.05	35.44	5.15		23.98	393.9	0.	24.05	35.44	23.98	393.9	0.000	
11. Δ	24.09	35.44	5.20		23.97	395.4	10.	24.09	35.44	23.97	395.4	0.040	
30.	24.06	35.44			23.98	395.4	20.	24.06	35.44	23.97	395.6	0.080	
50. Δ	24.05	35.44			23.98	395.9	30.	24.06	35.44	23.98	395.4	0.119	
75. Δ	21.60	35.30			24.58	339.8	50.	24.05	35.44	23.98	395.9	0.199	
102.	20.59	35.19	5.55		24.77	322.4	75.	21.60	35.30	24.58	339.8	0.292	
127.	19.53	35.08	5.44		24.96	304.5	100.	20.59	35.19	24.77	322.4	0.375	
153.	17.78	34.82	5.21		25.21	282.0	150.	19.53	35.08	24.96	304.5	0.528	
178.	16.75	34.70	4.98		25.36	267.9	200.	17.78	34.82	25.21	282.0	0.663	
193.	15.63	34.55	5.05		25.50	254.5	250.	16.75	34.70	25.36	267.9	0.781	
228.	13.85	34.38	4.86		25.76	230.8	300.	15.63	34.55	25.50	254.5	0.888	
255.	12.88	34.28	5.03		25.88	219.7	400.	13.85	34.38	25.76	230.8	1.074	
280.	12.02	34.22	5.10		26.00	208.5	500.	12.88	34.28	25.88	219.7	1.234	
305.	11.26	34.18	6.11		26.11	198.2	600.	12.02	34.22	26.00	208.5	1.370	
405.	8.86	34.06	4.53		26.43	168.8	700.	11.26	34.18	26.11	198.2	1.486	
507.	6.88	34.01	3.32		26.68	144.8	800.	8.86	34.06	26.43	168.8	1.587	
607.	5.40	34.08	1.56		26.92	121.3	1000.	6.88	34.01	26.68	144.8	1.762	
809.	4.28	34.30	0.57		27.22	93.3	1200.	5.40	34.08	26.92	121.3	1.912	
1012.	3.71	34.44	0.74		27.39	78.0		4.28	34.30	27.22	93.3		
1203.	3.34	34.51	1.17		27.48	69.9		3.71	34.44	27.39	78.0		
1482.	2.79	34.57	1.65		27.58	60.8		3.34	34.51	27.48	69.9		

CROMWELL DRY BULB 24.1		9, STATION WET BULB 21.9		38, 25- ON LAT, 151- 0W LONG, OCT. 18, 1964, 1000 G.C.T.			WIND SPEED 14, DIR. 20		BAR. 16	WEATHER 02	VIS.	CLOUD TYPE COVER	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.24	35.35			23.86	405.8	0.	24.24	35.35	23.86	405.8	0.000	
10. Δ	24.26	35.36			23.86	406.0	10.	24.26	35.36	23.86	406.0	0.041	
30.	24.26	35.36			23.86	406.8	20.	24.27	35.36	23.86	406.5	0.082	
52.	24.16	35.35			23.88	405.5	30.	24.26	35.36	23.86	406.8	0.123	
78.	22.03	35.29			24.45	352.1	50.	24.20	35.35	23.87	406.6	0.205	
102.	20.92	35.27			24.74	325.2	75.	22.03	35.29	24.45	352.1	0.301	
127.	19.99	35.17			24.91	309.5	100.	20.92	35.27	24.74	325.2	0.387	
153.	19.35	35.11			25.03	298.8	150.	19.99	35.17	24.91	309.5	0.545	
180.	18.34	34.96			25.18	286.0	200.	19.35	35.11	25.03	298.8	0.690	
193.	17.79	34.87			25.24	279.9	250.	18.34	34.96	25.18	286.0	0.819	
226.	15.46	34.53			25.53	253.3	300.	17.79	34.87	25.24	279.9	0.928	
253.	13.59	34.30			25.75	232.1	400.	15.46	34.53	25.53	253.3	1.112	
278.	11.91	34.14			25.96	212.3	500.	13.59	34.30	25.75	232.1	1.265	
303.	11.06	34.13			26.11	198.3	600.	11.91	34.14	25.96	212.3	1.395	
404.	8.52	34.06			26.48	163.5	700.	11.06	34.13	26.11	198.3	1.506	
505.	6.37	34.00			26.74	138.5	800.	8.52	34.06	26.48	163.5	1.603	
603.	5.37	34.14			26.97	116.4	1000.	6.37	34.00	26.74	138.5	1.774	
803.	4.41	34.35			27.25	91.1	1200.	5.37	34.14	26.97	116.4	1.924	
1002.	3.90	34.48			27.40	77.2	1500.	4.41	34.35	27.25	91.1	2.123	
1201.	3.46	34.52			27.48	70.6	2000.	3.90	34.48	27.40	77.2	2.406	
1498.	2.82	34.58			27.59	60.5	2500.	3.46	34.52	27.48	70.6	2.654	
1994.	2.13	34.63	2.09		27.69	51.1	3000.	2.82	34.58	27.59	60.5	2.883	
2494.	1.77	34.66	2.56		27.74	46.3		2.13	34.63	27.69	51.1		
2991.	1.58	34.68	3.00		27.77	43.9		1.77	34.66	27.74	46.3		
3988.	1.50	34.70	3.63		27.79	44.2		1.58	34.68	27.77	43.9		

AFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 9, STATION 39, 25- ON LAT, 154- 1W LONG, OCT. 19, 1964, 0200 G.C.T.		WIND SPEED 28, DIR. 35			BAR. 15		WEATHER 02		VIS. 4		CLOUD TYPE 6, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.53	35.43	5.36		23.83	408.3	0.	24.53	35.43	23.83	408.3	0.000
10.	24.52	35.44	5.37		23.84	407.7	10.	24.52	35.44	23.84	407.7	0.041
30.Δ	24.48	35.44			23.85	407.3	20.	24.52	35.44	23.84	407.8	0.082
50.Δ	24.20	35.43			23.93	400.8	30.	24.48	35.44	23.85	407.3	0.123
77.	21.43	35.28	5.56		24.61	336.8	50.	24.20	35.43	23.93	400.8	0.205
102.	20.56	35.25	5.39		24.82	317.3	75.	21.65	35.29	24.56	341.7	0.298
127.	19.60	35.13	5.20		24.98	302.6	100.	20.60	35.25	24.81	318.1	0.381
153.	18.05	34.87	4.89		25.18	284.7	150.	18.23	34.90	25.16	286.8	0.534
178.	16.96	34.73	4.89		25.34	270.4	200.	15.40	34.55	25.56	249.7	0.669
193.	15.89	34.60	4.87		25.48	256.5	250.	12.43	34.31	25.99	209.0	0.784
227.	13.65	34.40	5.21		25.82	225.3	300.	11.50	34.24	26.11	198.0	0.887
253.	12.31	34.30	5.23		26.01	207.4	400.	9.09	34.10	26.42	169.7	1.073
280.	11.86	34.27	5.28		26.07	201.9	500.	6.77	34.01	26.69	143.1	1.231
305.	11.40	34.23	5.31		26.12	197.0	600.	5.25	34.07	26.93	119.9	1.363
405.	8.96	34.09	4.87		26.43	168.2	700.	4.55	34.19	27.10	103.8	1.476
507.	6.63	34.01	4.97		26.71	141.3	800.	4.25	34.31	27.23	92.2	1.575
608.	5.16	34.08	1.62		26.95	118.3	1000.	3.76	34.46	27.41	76.7	1.746
809.	4.24	34.32	0.69		27.24	91.4	1200.	3.30	34.54	27.51	67.4	1.892
1011.	3.74	34.47	1.06		27.41	76.1	1500.	2.72	34.59	27.61	58.5	2.084
1211.	3.28	34.54	1.48		27.51	67.0						
1521.	2.68	34.59	1.86		27.61	58.2						

CROMWELL 9, STATION 40, 25- ON LAT, 157- 0W LONG, OCT. 19, 1964, 1800 G.C.T.		WIND SPEED 15, DIR. 03			BAR. 21		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.92	35.29			23.61	429.6	0.	24.92	35.29	23.61	429.6	0.000
9.	24.92	35.28			23.60	430.7	10.	24.92	35.28	23.60	430.8	0.043
50.Δ	24.94	35.28			23.59	432.9	20.	24.93	35.28	23.59	431.6	0.087
76.	24.93	35.28			23.59	433.6	30.	24.93	35.28	23.59	432.2	0.130
100.	22.76	35.20			24.17	379.2	50.	24.94	35.28	23.59	432.9	0.217
124.	21.95	35.23			24.43	356.0	75.	24.95	35.28	23.59	434.2	0.327
151.	21.32	35.27			24.63	337.4	100.	22.76	35.20	24.17	379.2	0.429
174.	20.63	35.19			24.76	326.1	150.	21.34	35.27	24.62	338.0	0.610
188.	19.82	35.04			24.86	316.8	200.	19.01	34.94	24.99	304.0	0.772
222.	17.50	34.80			25.26	279.2	250.	15.86	34.62	25.51	256.0	0.913
249.	15.93	34.63			25.50	256.9	300.	13.24	34.33	25.85	224.0	1.034
272.	14.47	34.46			25.69	238.8	400.	9.87	34.12	26.31	180.8	1.238
298.	13.32	34.34			25.84	225.0	500.	7.51	34.03	26.60	152.3	1.406
399.	9.90	34.12			26.30	181.1	600.	5.65	34.05	26.87	126.4	1.547
497.	7.58	34.03			26.59	153.2	700.	4.86	34.15	27.04	110.6	1.667
597.	5.68	34.05			26.86	126.9	800.	4.54	34.27	27.17	98.9	1.772
794.	4.57	34.26			27.16	99.6	1000.	3.86	34.46	27.40	77.9	1.951
994.	3.88	34.46			27.39	78.3	1200.	3.38	34.53	27.50	68.7	2.100
1189.	3.40	34.53			27.49	69.0	1500.	2.82	34.57	27.58	61.1	2.297
1489.	2.84	34.57			27.58	61.4	2000.	2.11	34.63	27.69	50.8	2.582
1996.	2.11	34.63	3.12		27.69	50.8	2500.	1.74	34.63	27.72	48.0	2.833
2494.	1.74	34.63	2.79		27.72	48.1	3000.	1.55	34.65	27.75	45.5	3.072
2992.	1.58	34.66	3.18		27.75	45.4						
3809.	1.50	34.70	3.66		27.79	43.7						

TEMPERATURE ERROR TERM AT 700. METERS IS 0.13

CROMWELL 9, STATION 41, 23-29N LAT, 157- 0W LONG, OCT. 20, 1964, 0500 G.C.T.		WIND SPEED 16, DIR. 04			BAR. 20		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 1	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	25.17	35.09			23.38	451.3	0.	25.17	35.09	23.38	451.3	0.000
10.	25.17	35.09			23.38	451.7	10.	25.17	35.09	23.38	451.7	0.045
30.Δ	25.10	35.09			23.40	450.4	20.	25.15	35.09	23.39	451.4	0.091
50.Δ	24.94	35.09			23.45	446.6	30.	25.10	35.09	23.40	450.4	0.136
73.	23.64	35.13			23.87	407.5	50.	24.94	35.09	23.45	446.6	0.227
97.	22.65	35.24			24.24	373.2	75.	23.55	35.14	23.90	404.5	0.334
120.	21.58	35.24			24.54	345.3	100.	22.50	35.24	24.28	369.0	0.431
143.	20.96	35.25			24.71	329.1	150.	20.76	35.22	24.75	326.2	0.607
168.	19.96	35.10			24.87	315.3	200.	17.83	34.85	25.22	282.4	0.760
182.	18.89	34.98			25.05	297.9	250.	15.15	34.53	25.59	247.5	0.894
214.	17.11	34.76			25.32	272.8	300.	12.82	34.31	25.91	217.7	1.011
238.	15.83	34.60			25.50	256.6	400.	9.40	34.07	26.35	176.2	1.210
262.	14.49	34.46			25.69	238.9	500.	7.13	34.04	26.67	146.0	1.372
286.	13.42	34.36			25.83	225.2	600.	5.46	34.10	26.93	120.7	1.507
379.	9.96	34.10			26.28	183.2	700.	4.70	34.21	27.10	104.0	1.620
470.	7.81	34.04			26.57	155.4	800.	4.34	34.33	27.24	91.9	1.720
562.	5.90	34.06			26.84	128.6	1000.	3.83	34.48	27.41	76.5	1.890
745.	4.56	34.27			27.17	98.3	1200.	3.33	34.56	27.52	66.4	2.035
930.	3.99	34.44			27.36	80.6						
1116.	3.58	34.52			27.47	71.3						
1398.	2.86	34.57			27.58	61.1						

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA			DERIVED DATA				INTERPOLATED DATA					
CROMWELL 9, STATION 42, 22- ON LAT, 157- 1W LONG, OCT. 20, 1964, 1500 G.C.T.												
DRY BULB 23.4	WET BULB 20.4		WIND SPEED 12, DIR. 04	BAR. 18	WEATHER 01	VIS. 8	CLOUD TYPE	COVER				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.27	35.05			23.32	457.1	0.	25.27	35.05	23.32	457.1	0.000
9.	25.33	35.05			23.30	459.2	10.	25.33	35.05	23.30	459.3	0.046
50.Δ	25.33	35.05			23.30	460.8	20.	25.35	35.05	23.29	460.3	0.092
75.Δ	25.33	35.05			23.30	461.8	30.	25.36	35.05	23.29	460.8	0.139
95.	23.62	35.07			23.83	412.2	50.	25.33	35.05	23.30	460.8	0.232
117.	22.58	35.12			24.17	380.7	75.	25.33	35.05	23.30	461.8	0.348
140.	21.40	35.17			24.53	346.3	100.	23.35	35.08	23.91	404.0	0.457
163.	20.57	35.13			24.73	328.4	150.	21.04	35.16	24.62	337.9	0.644
178.	19.80	35.07			24.89	313.8	200.	18.81	34.96	25.05	298.4	0.804
210.	18.31	34.89			25.13	291.4	250.	15.49	34.55	25.54	253.1	0.943
234.	16.63	34.69			25.38	267.6	300.	12.02	34.20	25.99	210.1	1.060
258.	14.89	34.48			25.61	245.7	400.	9.29	34.14	26.42	169.6	1.252
281.	12.99	34.28			25.86	222.5	500.	7.34	34.17	26.74	139.7	1.408
375.	9.89	34.15			26.33	178.3	600.	5.96	34.24	26.98	116.3	1.537
469.	7.91	34.15			26.64	148.7	700.	5.21	34.33	27.14	101.1	1.647
563.	6.35	34.21			26.91	123.5	800.	4.81	34.41	27.25	91.4	1.744
752.	4.99	34.38			27.21	95.5	1000.	4.24	34.49	27.38	80.3	1.918
942.	4.42	34.48			27.35	83.0	1200.	3.66	34.54	27.48	71.6	2.072
1130.	3.84	34.51			27.43	75.3						
1418.	3.07	34.56			27.55	64.5						

TEMPERATURE ERROR TERM AT 300. METERS IS 0.17

ΔFROM BT DATA

Table 3.--Original and derived oceanographic data for Townsend Cromwell cruise 10

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 10, STATION 1, 20-36N LAT, 157-15W LONG, NOV. 5, 1964, 0900 G.C.T.		WET BULB 22.1 WIND SPEED 24, DIR. 05			BAR. 20 WEATHER 02			VIS. 8		CLOUD TYPE , COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.66	34.92			23.10	477.9	0.	25.66	34.92	23.10	477.9	0.000
10.	25.67	34.92			23.10	478.6	10.	25.67	34.92	23.10	478.6	0.048
51.	25.41	35.04			23.27	463.9	20.	25.64	34.95	23.13	476.2	0.096
77.	25.12	35.05			23.36	455.8	30.	25.59	34.97	23.16	473.1	0.144
103.	23.33	35.10			23.93	402.2	50.	25.42	35.04	23.26	464.4	0.239
128.	21.64	35.11			24.42	356.5	75.	25.17	35.05	23.35	457.2	0.355
153.	20.42	35.07			24.72	328.6	100.	23.57	35.09	23.86	409.3	0.464
178.	19.39	34.98			24.92	310.0	150.	20.55	35.08	24.69	331.2	0.650
194.	19.04	34.94			24.98	304.9	200.	18.64	34.90	25.05	298.2	0.809
228.	16.42	34.68			25.42	263.5	250.	15.21	34.56	25.61	246.1	0.946
253.	15.06*	34.55			25.63	244.1	300.	12.00	34.27	26.04	204.9	1.060
280.	13.63	34.41			25.83	225.6	400.	8.26	34.13	26.57	154.3	1.241
306.	11.50	34.23			26.10	198.9	500.	6.28	34.21	26.91	121.7	1.380
406.	8.19	34.14			26.59	152.6	600.	5.58	34.33	27.09	105.3	1.495
508.	6.17	34.22			26.94	119.6	700.	5.08	34.41	27.22	94.0	1.596
604.	5.57	34.33			27.10	104.9	800.	4.66	34.47	27.31	85.5	1.687
810.	4.62	34.47			27.32	84.9	1000.	3.99	34.53	27.43	74.8	1.849
1018.	3.94	34.53			27.44	74.1	1200.	3.44	34.57	27.52	66.8	1.992
1222.	3.38	34.57			27.53	66.1	1500.	2.79	34.60	27.61	58.8	2.183
1523.	2.75	34.60			27.61	58.4						

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 10, STATION 2, 19- ON LAT, 156-56W LONG, NOV. 5, 1964, 2000 G.C.T.		WET BULB 21.1 WIND SPEED 03, DIR. 00			BAR. 18 WEATHER 03			VIS. 6		CLOUD TYPE 6, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.94	34.92			23.01	486.2	0.	25.94	34.92	23.01	486.2	0.000
10.	25.97	34.93			23.01	486.7	10.	25.97	34.93	23.01	486.7	0.049
100.	25.99	34.92			23.00	491.7	20.	25.99	34.93	23.01	487.6	0.098
126.	25.96	34.93			23.01	491.1	30.	26.00	34.93	23.00	488.3	0.147
152.	25.83	34.94			23.06	487.6	50.	26.02	34.93	23.00	489.6	0.246
177.	23.61	35.07			23.83	415.0	75.	26.02	34.93	23.00	490.9	0.369
191.	22.32	35.11			24.23	377.1	100.	25.99	34.92	23.00	491.7	0.493
226.	19.05	34.99			25.02	302.6	150.	25.88	34.94	23.04	489.2	0.740
252.	16.71	34.69			25.36	270.0	200.	21.48	35.11	24.47	354.9	0.953
279.	14.47	34.45			25.68	239.7	250.	16.89	34.72	25.34	272.1	1.111
302.	12.27	34.29			26.01	208.7	300.	12.46	34.30	25.98	211.1	1.233
405.	8.24	34.13			26.58	154.1	400.	8.30	34.12	26.56	155.3	1.418
506.	6.40	34.22			26.91	122.7	500.	6.46	34.21	26.89	124.1	1.559
605.	5.67	34.35			27.10	104.7	600.	5.69	34.34	27.09	105.4	1.675
810.	4.77	34.46			27.30	87.5	700.	5.18	34.42	27.21	94.6	1.776
1010.	4.21	34.52			27.40	78.1	800.	4.80	34.46	27.29	87.9	1.868
1210.	3.62	34.56			27.50	69.6	1000.	4.23	34.52	27.40	78.4	2.036
1511.	2.85	34.60			27.60	59.5	1200.	3.65	34.56	27.49	70.0	2.187
							1500.	2.88	34.60	27.60	59.8	2.384

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 10, STATION 3, 17-29N LAT, 157- 2W LONG, NOV. 6, 1964, 0600 G.C.T.		WET BULB 22.2 WIND SPEED 24, DIR. 08			BAR. 16 WEATHER 02			VIS. 7		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.99	33.95			22.27	557.5	0.	25.99	33.95	22.27	557.5	0.000
12.	25.97	33.95			22.27	557.4	10.	25.97	33.95	22.27	557.4	0.056
30.Δ	25.97	33.95			22.27	558.1	20.	25.97	33.95	22.27	557.6	0.112
50.Δ	25.97	33.95			22.27	558.9	30.	25.97	33.95	22.27	558.1	0.168
73.	23.81	34.83			23.59	433.9	50.	25.97	33.95	22.27	558.9	0.281
99.	22.39	35.01			24.14	382.8	75.	23.68	34.86	23.65	428.1	0.405
123.	21.35	35.12			24.51	348.0	100.	22.35	35.02	24.15	381.1	0.507
149.	19.98	35.07			24.84	317.3	150.	19.93	35.07	24.85	316.3	0.683
173.	18.34	34.88			25.11	291.6	200.	15.99	34.53	25.41	263.7	0.829
187.	16.86	34.66			25.31	273.5	250.	11.04	34.20	26.16	191.8	0.944
220.	14.60	34.40			25.62	244.4	300.	9.69	34.28	26.47	163.5	1.034
247.	11.20	34.20			26.14	194.3	400.	7.66	34.29	26.79	133.7	1.183
272.	10.39	34.22			26.30	179.4	500.	6.18	34.29	26.99	114.5	1.309
296.	9.78	34.28			26.45	165.3	600.	5.91	34.42	27.13	102.7	1.418
393.	7.80	34.29			26.77	135.5	700.	5.40	34.47	27.23	93.5	1.518
492.	6.22	34.28			26.98	115.6	800.	4.87	34.49	27.31	86.4	1.609
575.	6.03	34.40			27.10	105.3	1000.	4.12	34.53	27.42	76.3	1.773
766.	5.02	34.48			27.28	88.6	1200.	3.52	34.56	27.50	68.6	1.920
959.	4.25	34.52			27.40	78.1						
1152.	3.69	34.55			27.48	70.7						
1440.	2.93	34.58			27.58	61.5						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.15

ΔFROM BT DATA
*INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		10, STATION		4, 16- 34 LAT, 156-59W LONG, NOV. 6, 1964, 1600 G.C.T.									
DRY BULB	24.2	WET BULB	22.9	WIND SPEED 16, DIR. 06		BAR.	14	WEATHER	02	VIS.	7	CLOUD TYPE	, COVER
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.91	34.00			22.33	551.5	0.	25.91	34.00	22.33	551.5	0.000	
10.	25.93	34.00			22.32	552.5	10.	25.93	34.00	22.32	552.5	0.056	
20.Δ	25.93	34.00			22.32	552.9	20.	25.93	34.00	22.32	552.9	0.111	
30.	25.93	34.00			22.32	553.3	30.	25.93	34.00	22.32	553.3	0.167	
49.	25.29	34.78			23.11	479.0	50.	25.20	34.80	23.15	475.3	0.271	
74.	22.79	34.96			23.98	396.3	75.	22.71	34.97	24.02	393.4	0.380	
97.	21.18	35.16			24.59	339.7	100.	20.99	35.16	24.63	335.2	0.472	
121.	19.67	35.03			24.89	311.4	150.	17.44	34.72	25.21	281.2	0.627	
146.	17.84	34.77			25.15	286.8	200.	12.85	34.30	25.90	216.4	0.752	
170.	15.36	34.49			25.52	252.4	250.	10.28	34.30	26.38	170.8	0.850	
195.	13.91	34.34			25.72	233.7	300.	9.15	34.30	26.56	153.9	0.932	
217.	11.91	34.31			26.09	198.3	400.	7.95	34.46	26.88	125.5	1.073	
243.	10.64	34.33			26.34	174.9	500.	6.66	34.48	27.08	106.8	1.190	
269.	9.44	34.24			26.47	162.8	600.	6.04	34.49	27.17	99.2	1.294	
292.	9.25	34.26			26.53	156.6	700.	5.25	34.49	27.27	89.8	1.390	
390.	7.96	34.45			26.87	126.0	800.	4.76	34.51	27.33	83.9	1.478	
489.	6.97	34.44			27.04	110.3	1000.	4.02	34.55	27.45	73.4	1.637	
493.	6.78	34.48			27.06	108.4							
586.	6.20	34.47			27.15	101.1							
623.	5.78	34.47			27.20	96.0							
758.	5.00	34.50			27.30	86.8							
967.	4.08	34.54			27.43	74.6							
1000.**	4.02**	34.55**			27.45	73.4							

CROMWELL		10, STATION		5, 14-29N LAT, 156-59W LONG, NOV. 7, 1964, 0100 G.C.T.									
DRY BULB	26.4	WET BULB	22.8	WIND SPEED 21, DIR. 07		BAR.	12	WEATHER	03	VIS.	8	CLOUD TYPE	8, COVER 5
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.84	34.08			22.41	543.7	0.	25.84	34.08	22.41	543.7	0.000	
8.	25.83	34.08			22.41	543.7	10.	25.83	34.09	22.42	543.3	0.055	
30.Δ	25.80	34.18			22.50	536.5	20.	25.82	34.13	22.45	540.4	0.109	
50.Δ	25.74	34.25			22.57	530.5	30.	25.80	34.18	22.50	536.5	0.164	
70.	23.28	34.83			23.74	419.0	50.	25.74	34.25	22.57	530.5	0.271	
93.	22.26	35.04			24.20	376.9	75.	23.01	34.91	23.88	406.1	0.389	
116.	20.40	34.96			24.64	334.7	100.	21.77	35.04	24.33	364.3	0.486	
139.	17.89	34.78			25.15	287.0	150.	17.19	34.71	25.26	276.4	0.647	
164.	16.44	34.64			25.39	264.8	200.	13.63	34.55	25.94	213.2	0.771	
196.	14.04	34.61			25.90	216.9	250.	10.53	34.22	26.27	181.6	0.870	
211.	12.51	34.37			26.02	204.9	300.	9.44	34.36	26.57	153.7	0.955	
277.	9.99	34.30			26.43	166.9	400.	7.90	34.48	26.90	123.4	1.095	
341.	8.70	34.48			26.78	134.1	500.	6.81	34.47	27.05	109.9	1.213	
407.	7.82	34.47			26.91	122.7	600.	5.97	34.48	27.17	98.8	1.318	
539.	6.45	34.47			27.10	105.3	700.	5.34	34.50	27.26	90.1	1.413	
671.	5.51	34.50			27.24	92.3	800.	4.81	34.52	27.34	83.5	1.501	
805.	4.79	34.52			27.34	83.2	1000.	4.08	34.55	27.44	74.3	1.661	
1013.	4.05	34.55			27.45	73.9							

TEMPERATURE ERROR TERM AT 250. METERS IS 0.23
 SALINITY ERROR TERM AT 250. METERS IS 0.05

CROMWELL		10, STATION		6, 13- 0N LAT, 157- 0W LONG, NOV. 7, 1964, 0900 G.C.T.									
DRY BULB	26.0	WET BULB	23.1	WIND SPEED 26, DIR. 06		BAR.	13	WEATHER	02	VIS.		CLOUD TYPE	, COVER
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.67	33.92			22.03	580.0	0.	26.67	33.92	22.03	580.0	0.000	
10.	26.63	33.92			22.04	579.2	10.	26.63	33.92	22.04	579.2	0.058	
30.Δ	26.62	33.92			22.05	579.7	20.	26.63	33.91	22.04	580.5	0.117	
50.Δ	26.40	34.10			22.25	560.9	30.	26.62	33.92	22.05	579.7	0.175	
71.	22.86	34.86			23.89	405.3	50.	26.40	34.10	22.25	560.9	0.290	
94.	21.18	35.07			24.52	346.1	75.	22.49	34.93	24.05	390.2	0.410	
118.	19.35	34.97			24.93	307.7	100.	20.82	35.08	24.62	336.2	0.501	
140.	15.97	34.53			25.41	261.7	150.	14.50	34.39	25.63	241.1	0.647	
164.	12.76	34.26			25.89	216.5	200.	10.59	34.26	26.29	178.7	0.753	
178.	11.68	34.22			26.06	199.8	250.	9.35	34.39	26.61	149.0	0.835	
210.	10.27	34.29			26.37	170.9	300.	9.09	34.51	26.74	137.0	0.907	
233.	9.68	34.35			26.52	157.2	400.	8.29	34.57	26.91	122.4	1.038	
257.	9.25	34.41			26.64	146.3	500.	7.30	34.53	27.03	112.0	1.157	
282.	9.18	34.48			26.70	140.5	600.	6.39	34.52	27.14	101.9	1.265	
375.	8.52	34.57			26.88	125.3	700.	5.61	34.52	27.24	92.9	1.363	
470.	7.59	34.54			26.99	115.2	800.	5.01	34.53	27.32	85.3	1.453	
563.	6.71	34.52			27.10	105.6	1000.	4.17	34.57	27.45	74.0	1.614	
752.	5.27	34.52			27.28	88.7	1200.	3.49	34.59	27.54	65.5	1.756	
939.	4.41	34.56			27.41	76.9							
1128.	3.72	34.58			27.50	68.7							
1415.	2.94	34.61			27.60	59.2							

ΔFROM BT DATA
 **EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 10, STATION 7, 11-30N LAT, 157-0W LONG, NOV. 7, 1964, 1800 G.C.T.		WET BULB 23.8 WIND SPEED 23, DIR. 06			BAR. 12 WEATHER 14			VIS. 7		CLOUD TYPE 1, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.43	33.69			21.93	589.4	0.	26.43	33.69	21.93	589.4	0.000
11.	26.44	33.69			21.93	590.1	10.	26.44	33.69	21.93	590.1	0.059
20.Δ	26.43	33.69			21.93	590.1	20.	26.43	33.69	21.93	590.1	0.119
30.Δ	26.43	33.69			21.93	590.5	30.	26.43	33.69	21.93	590.5	0.178
51.	20.53	34.56			24.31	364.6	50.	20.88	34.52	24.18	376.8	0.276
75.	15.88	34.46			25.38	262.9	75.	15.88	34.46	25.38	262.9	0.356
101.	12.95	34.33			25.90	213.4	100.	13.03	34.33	25.89	214.7	0.416
126.	11.49	34.45			26.28	178.3	150.	11.28	34.61	26.44	163.4	0.512
152.	11.28	34.62			26.45	162.7	200.	10.61	34.67	26.61	148.5	0.590
176.	10.91	34.67			26.55	153.1	250.	10.33	34.70	26.68	142.6	0.664
190.	10.70	34.66			26.58	150.5	300.	9.36	34.63	26.79	132.7	0.733
225.	10.46	34.70			26.66	144.2	400.	8.11	34.57	26.94	119.6	0.860
250.	10.33	34.70			26.68	142.6	500.	7.04	34.55	27.08	107.1	0.975
276.	9.92	34.67			26.73	138.5	600.	6.29	34.53	27.16	99.6	1.079
300.	9.36	34.63			26.79	132.7	700.	5.65	34.54	27.25	92.0	1.176
400.	8.11	34.57			26.94	119.6	800.	5.10	34.55	27.33	84.9	1.265
499.	7.05	34.55			27.08	107.2	1000.	4.24	34.57	27.44	74.6	1.427
599.	6.30	34.53			27.16	99.7	1200.	3.59	34.59	27.52	66.9	1.570
797.	5.12	34.55			27.33	85.1						
996.	4.25	34.57			27.44	74.7						
1194.	3.65	34.59			27.52	67.6						
1493.	2.84	34.62			27.62	57.8						

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 10, STATION 7A, 10-7N LAT, 153-56W LONG, NOV. 8, 1964, 1500 G.C.T.		WET BULB 22.9 WIND SPEED 16, DIR. 36			BAR. 10 WEATHER 02			VIS.		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	27.04	34.01	4.59	0.29	21.98	584.8	0.	27.04	34.01	21.98	584.8	0.000
10.	27.06	34.01	4.58	0.31	21.98	585.8	10.	27.06	34.01	21.98	585.8	0.059
20.Δ	25.66	34.92			23.10	478.7	20.	25.66	34.92	23.10	478.7	0.113
30.Δ	25.66	34.92			23.10	479.1	30.	25.66	34.92	23.10	479.1	0.161
50.	22.59	34.85	4.76	0.33	23.96	397.9	50.	22.59	34.85	23.96	397.9	0.249
75.	17.14	34.61	3.88	0.73	25.20	280.0	75.	17.14	34.61	25.20	280.0	0.335
101.	12.90	34.44	1.91	1.58	26.00	204.4	100.	13.02	34.44	25.98	206.5	0.396
126.	11.98	34.68	0.30	1.91	26.36	170.2	150.	11.38	34.70	26.49	158.3	0.488
152.	11.34	34.70	0.48	2.13	26.50	157.9	200.	10.73	34.72	26.63	146.8	0.565
176.	11.01	34.72		2.53	26.57	151.1	250.	10.15	34.71	26.72	138.6	0.637
191.	10.91	34.72	0.46	2.55	26.59	149.7	300.	9.81	34.82	26.86	126.5	0.703
200.	10.73	34.72	0.44	2.16	26.63	146.8	400.	9.02	34.76	26.94	119.9	0.828
225.	10.37	34.72	0.60	2.73	26.69	141.2	500.	8.06	34.61	26.98	117.3	0.948
252.	10.13	34.71	0.47	2.13	26.72	138.5	600.	7.12	34.57	27.08	108.3	1.061
272.	9.93	34.70	0.61	2.09	26.75	136.3	700.	6.24	34.55	27.19	98.7	1.166
273.	9.93	34.71	0.44	2.34	26.76	135.6	800.	5.58	34.55	27.27	91.4	1.262
420.	8.79	34.66	0.55		26.91	123.8	1000.	4.62	34.56	27.39	80.4	1.436
564.	7.46	34.58	0.38	3.32	27.04	111.9	1200.	3.92	34.58	27.48	71.9	1.590
710.	6.16	34.55	0.73	2.69	27.20	97.8	1500.	3.14	34.61	27.58	62.4	1.795
931.	4.91	34.55	1.01	2.85	27.35	83.9	2000.	2.19	34.65	27.70	50.5	2.082
1295.	3.66	34.59	1.53	2.63	27.52	68.6	2500.	1.82	34.67	27.74	46.1	2.328
1659.	2.80	34.62	1.80	2.50	27.62	58.3						
2023.	2.16	34.65	2.24	2.25	27.70	50.1						
2742.	1.83	34.68	2.69	2.74	27.75	46.5						

SALINITY ERROR TERM AT 300. METERS IS 0.07
 SALINITY ERROR TERM AT 400. METERS IS 0.06

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 10, STATION 8, 11-28N LAT, 153-59W LONG, NOV. 9, 1964, 0000 G.C.T.		WET BULB 23.5 WIND SPEED 20, DIR. 08			BAR. 10 WEATHER 01			VIS. 7		CLOUD TYPE 1, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.55	34.02	4.41		22.14	569.2	0.	26.55	34.02	22.14	569.2	0.000
11.	26.59	34.02	4.75		22.13	570.9	10.	26.59	34.02	22.13	570.8	0.057
20.Δ	26.58	34.02			22.14	570.9	20.	26.58	34.02	22.14	570.9	0.115
30.Δ	26.52	34.07			22.19	565.9	30.	26.52	34.07	22.19	565.9	0.172
51.	21.88	34.61	5.10		23.98	396.2	50.	22.15	34.58	23.88	405.3	0.270
78.	18.89	34.81	4.49		24.92	306.7	75.	19.16	34.82	24.86	312.8	0.360
100.	15.72	34.52	3.76		25.46	255.8	100.	15.72	34.52	25.46	255.8	0.432
124.	12.68	34.49	1.35		26.08	197.1	150.	11.61	34.64	26.40	167.0	0.539
150.	11.61	34.64	0.53		26.40	167.0	200.	10.68	34.71	26.63	146.7	0.618
176.	10.97	34.68	0.42		26.55	153.4	250.	10.14	34.71	26.72	138.6	0.690
191.	10.77	34.70	0.31		26.60	148.8	300.	9.65	34.69	26.79	133.1	0.758
222.	10.46	34.72	0.31		26.67	142.7	400.	8.69	34.64	26.90	123.4	0.888
250.	10.14	34.71	0.42		26.72	138.6	500.	7.68	34.59	27.02	113.4	1.007
276.	9.83	34.70	0.44		26.77	134.7	600.	6.85	34.56	27.11	105.2	1.117
299.	9.66	34.69	0.44		26.79	133.2	700.	6.09	34.55	27.21	96.8	1.219
398.	8.71	34.64	0.40		26.90	123.6	800.	5.46	34.55	27.29	89.5	1.314
499.	7.69	34.59	0.43		27.02	113.5	1000.	4.49	34.56	27.41	78.5	1.484
598.	6.87	34.56	0.66		27.11	105.4	1200.	3.79	34.58	27.49	70.4	1.634
774.	5.60	34.55	0.95		27.27	91.1						
924.	4.90	34.56	0.89		27.36	82.9						
1310.	3.52	34.59	1.55		27.53	67.0						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA					
CROMWELL DRY BULB 25.0		10, STATION WET BULB 23.4	9, 13- ON LAT, 153-57W LONG, NOV. WIND SPEED 22, DIR. 07	9, 1964, 1000 G.C.T. BAR. 15 WEATHER 01		VIS.		CLOUD TYPE , COVER						
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	26.43	33.94	4.67	0.33	22.12	571.4	0.	26.43	33.94	22.12	571.4	0.000		
11.	26.46	33.94	4.70	0.33	22.11	572.7	10.	26.46	33.94	22.11	572.7	0.058		
30.	26.44	34.00			22.16	568.5	20.	26.49	33.93	22.10	574.4	0.115		
51.	25.81	34.63	5.18	0.31	22.83	505.2	30.	26.44	34.00	22.16	568.5	0.173		
78.	22.34	34.87	4.81		24.04	390.7	50.	25.87	34.60	22.79	509.2	0.282		
102.	20.13	35.01	4.65	0.42	24.75	323.7	75.	22.77	34.86	23.91	403.0	0.396		
128.	16.85	34.65	4.08	0.61	25.30	272.2	100.	20.31	35.01	24.70	328.4	0.489		
153.	12.94	34.30	2.67	1.82	25.88	216.8	150.	13.36	34.33	25.82	222.8	0.627		
178.	11.60	34.48	1.04	2.53	26.28	179.3	200.	10.98	34.54	26.44	164.4	0.725		
191.	11.21	34.52	1.01	2.48	26.38	169.7	250.	10.17	34.60	26.63	147.3	0.804		
226.	10.47	34.58	0.71	2.75	26.56	153.2	300.	9.54	34.60	26.74	137.8	0.875		
253.	10.14	34.60	0.54	2.45	26.64	146.8	400.	8.61	34.60	26.89	125.0	1.008		
281.	9.83	34.60	0.46	2.74	26.69	142.2	500.	7.56	34.57	27.02	112.9	1.128		
305.	9.46	34.60	0.35		26.75	136.7	600.	6.79	34.54	27.11	105.6	1.239		
405.	8.58	34.60	0.35	2.76	26.89	124.6	700.	6.07	34.53	27.20	97.6	1.341		
506.	7.50	34.57	0.60		27.03	112.3	800.	5.42	34.54	27.28	89.9	1.436		
607.	6.74	34.54	0.58	2.56	27.11	105.2	1000.	4.48	34.56	27.41	78.5	1.606		
807.	5.38	34.54	0.69	3.23	27.29	89.3	1200.	3.83	34.59	27.50	70.1	1.757		
1009.	4.45	34.56	1.25		27.41	78.1	1500.	3.03	34.61	27.59	60.9	1.956		
1209.	3.81	34.59	1.41	3.05	27.50	69.7								
1510.	3.01	34.61	1.78	2.61	27.59	60.7								

CROMWELL DRY BULB 25.7		10, STATION WET BULB 23.5	10, 14-28N LAT, 153-57W LONG, NOV. WIND SPEED 26, DIR. 07	9, 1964, 1900 G.C.T. BAR. 14 WEATHER 02		VIS. 8		CLOUD TYPE R, COVER 6				
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.02	33.91	4.87	0.38	22.23	561.3	0.	26.02	33.91	22.23	561.3	0.000
10.	25.99	33.90	4.85	0.34	22.23	561.5	10.	25.99	33.90	22.23	561.5	0.057
30.	25.99	33.90			22.23	562.3	20.	25.98	33.90	22.23	561.9	0.113
50.	25.99	33.90			22.23	563.1	30.	25.99	33.90	22.23	562.3	0.170
74.	20.77	34.48	4.84	0.67	24.18	377.4	50.	25.99	33.90	22.23	563.1	0.283
98.	16.33	34.41	2.95	1.51	25.24	277.1	75.	20.56	34.48	24.24	371.7	0.401
124.	13.59	34.31	3.50	2.18	25.76	227.9	100.	16.06	34.40	25.29	271.7	0.482
149.	12.29	34.24	3.26	1.60	25.96	208.8	150.	12.26	34.75	25.97	207.7	0.603
171.	11.71	34.42	1.40	2.20	26.21	185.5	200.	10.81	34.47	26.42	166.6	0.697
186.	11.17	34.45	1.27	2.27	26.34	174.0	250.	9.74	34.48	26.61	148.7	0.776
218.	10.41	34.48	1.08	2.35	26.50	159.4	300.	8.98	34.45	26.71	139.9	0.849
243.	9.81	34.47	1.01	2.53	26.59	150.7	400.	7.65	34.44	26.91	122.0	0.981
268.	9.58	34.51		2.68	26.66	144.5	500.	6.81	34.48	27.06	108.8	1.098
292.	9.12	34.46	0.94	2.55	26.70	141.3	600.	6.14	34.49	27.15	100.7	1.204
387.	7.79	34.44	0.70		26.89	124.2	700.	5.54	34.51	27.25	92.3	1.301
482.	6.94	34.48	0.63	3.02	27.04	110.5	800.	5.03	34.53	27.32	85.2	1.391
576.	6.29	34.48	0.70	3.27	27.13	102.9	1000.	4.20	34.55	27.43	75.8	1.554
766.	5.19	34.53	0.80	3.20	27.30	87.1	1200.	3.52	34.57	27.52	67.4	1.699
956.	4.36	34.54	1.02	3.07	27.40	77.9						
1135.	3.74	34.57	1.19	3.20	27.49	69.7						
1356.	3.08	34.59	1.58	2.92	27.57	62.0						

CROMWELL DRY BULB 25.5		10, STATION WET BULB 22.7	11, 16- 04N LAT, 154- 4W LONG, NOV. 10, 1964, 0500 G.C.T. WIND SPEED 28, DIR. 07	9, 1964, 0500 G.C.T. BAR. 16 WEATHER 60		VIS. 6		CLOUD TYPE R, COVER 7				
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.51	34.39	5.00	0.25	22.75	511.6	0.	25.51	34.39	22.75	511.6	0.000
10.	25.50	34.38	5.02		22.74	512.5	10.	25.50	34.38	22.74	512.5	0.052
30.	25.46	34.38			22.75	512.1	20.	25.48	34.38	22.75	512.4	0.103
50.	25.42	34.38			22.77	511.7	30.	25.46	34.38	22.75	512.1	0.155
77.	23.32	34.88	5.28	0.24	23.77	416.8	50.	25.42	34.38	22.77	511.7	0.258
101.	21.99	35.06	5.10	0.27	24.29	368.5	75.	23.50	34.84	23.69	424.8	0.376
125.	20.94	35.14	5.05	0.32	24.64	335.9	100.	22.04	35.06	24.27	370.0	0.476
150.	18.68	34.92	4.55	0.40	25.06	296.1	150.	18.68	34.92	25.06	296.1	0.644
174.	15.04	34.42	3.49	1.48	25.54	250.8	200.	12.69	34.27	25.91	215.1	0.773
190.	13.58	34.29	4.21	0.71	25.74	230.9	250.	11.16	34.56	26.42	167.3	0.869
223.	11.22	34.35	2.48	2.02	26.25	183.1	300.	10.77	34.70	26.60	151.2	0.949
250.	11.16	34.56	1.26	2.17	26.42	167.3	400.	9.45	34.62	26.77	137.0	1.095
274.	10.80	34.62	1.63	2.11	26.54	157.1	500.	8.47	34.58	26.89	126.2	1.228
299.	10.78	34.70	0.28	2.59	26.60	151.4	600.	7.39	34.55	27.03	113.7	1.349
398.	9.47	34.62	0.38	2.18	26.76	137.2	700.	6.51	34.53	27.14	104.1	1.459
498.	8.49	34.53	0.33		26.89	126.4	800.	5.80	34.52	27.22	96.3	1.560
598.	7.41	34.55	0.45		27.03	113.9	1000.	4.79	34.54	27.36	83.8	1.742
798.	5.81	34.52	0.67	2.80	27.22	96.4	1200.	4.02	34.56	27.46	74.4	1.902
997.	4.80	34.54	0.90	2.44	27.36	83.9						
1196.	4.06	34.56	1.19	3.17	27.45	74.9						
1496.	3.22	34.59	1.57	3.20	27.56	64.6						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 10, STATION 12, 17-29N LAT, 153-56W LONG, NOV. 10, 1964, 1400 G.C.T.		WET BULB 20.9			WIND SPEED 24, DIR. 08			BAR. 18	WEATHER 01	VIS.	CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
1.	25.36	34.44	4.76	0.28	22.83	503.7	0.	25.36	34.44	22.83	503.6	0.000
9.	25.34	34.43	4.78	0.42	22.83	504.1	10.	25.34	34.43	22.83	504.2	0.051
30.Δ	25.34	34.43			22.83	505.0	20.	25.34	34.43	22.83	504.6	0.102
50.Δ	25.34	34.43			22.83	505.7	30.	25.34	34.43	22.83	505.0	0.152
77.	23.40	34.67	5.16	0.25	23.59	434.1	50.	25.34	34.43	22.83	505.7	0.254
102.	22.22	34.82	5.11	0.38	24.04	392.0	75.	23.57	34.65	23.52	440.3	0.373
126.	21.51	34.96	5.02	0.37	24.34	363.9	100.	22.30	34.81	24.01	394.7	0.479
152.	19.32	34.80	4.51	0.54	24.81	320.4	150.	19.52	34.82	24.77	323.9	0.660
177.	16.98	34.61	4.00	0.68	25.24	279.6	200.	14.85	34.39	25.56	249.5	0.804
192.	15.60	34.47	3.78	0.99	25.45	259.6	250.	11.10	34.23	26.18	190.6	0.915
227.	12.57	34.22	3.96	1.12	25.89	217.5	300.	10.73	34.59	26.53	158.4	1.003
253.	10.96	34.24	2.63	2.09	26.21	187.3	400.	9.53	34.57	26.71	142.0	1.155
279.	10.77	34.51	1.00	2.63	26.45	164.7	500.	8.42	34.54	26.87	128.2	1.291
304.	10.72	34.60	0.46	2.40	26.53	157.8	600.	7.30	34.49	27.00	116.4	1.415
405.	9.45	34.56	0.38	2.82	26.72	141.5	700.	6.48	34.48	27.10	107.2	1.528
507.	8.35	34.54	0.35	2.55	26.88	127.3	800.	5.87	34.49	27.19	99.6	1.632
608.	7.21	34.49	0.45	2.91	27.01	115.6	1000.	4.84	34.50	27.32	87.5	1.821
808.	5.83	34.49	0.61	3.18	27.19	99.0	1200.	3.98	34.52	27.43	76.8	1.988
1011.	4.79	34.50	0.88	3.42	27.32	86.9						
1183.	4.01	34.52	1.05	3.40	27.43	77.1						
1406.	3.40	34.56	1.33	2.60	27.52	68.4						

CROMWELL 10, STATION 13, 19- ON LAT, 153-58W LONG, NOV. 10, 1964, 2300 G.C.T.		WET BULB 22.5			WIND SPEED 23, DIR. 07			BAR. 18	WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
0.	25.38	34.56	4.79	0.34	22.91	495.6	0.	25.38	34.56	22.91	495.6	0.000
11.	25.42	34.57	4.88	0.29	22.91	496.5	10.	25.42	34.57	22.91	496.4	0.050
30.Δ	25.40	34.59			22.93	495.2	20.	25.42	34.58	22.92	496.0	0.100
50.Δ	25.38	34.59			22.94	495.4	30.	25.40	34.59	22.93	495.2	0.150
75.	25.36	34.59			22.94	495.8	50.	25.38	34.59	22.94	495.4	0.250
105.	22.42	34.87	5.14	0.27	24.02	393.9	75.	25.36	34.59	22.94	495.8	0.374
130.	21.45	34.98	4.92	0.30	24.38	361.0	100.	22.95	34.82	23.83	412.0	0.449
155.	20.64	35.03	4.73	0.40	24.63	337.2	150.	20.80	35.03	24.59	341.5	0.679
185.	19.42	34.96	4.39	0.80	24.90	312.5	200.	18.84	34.90	25.00	303.4	0.841
203.	18.70	34.88	4.33	0.47	25.02	301.2	250.	15.12	34.51	25.59	248.3	0.980
230.	16.49	34.67	4.40	1.13	25.40	265.8	300.	11.89	34.21	26.02	207.3	1.095
255.	14.80	34.47	4.35	0.92	25.63	244.5	400.	8.24	34.12	26.57	154.7	1.278
276.*	13.42*	34.33	4.49	0.96	25.81	227.1	500.	6.79	34.21	26.85	128.8	1.421
283.	13.02	34.29	4.58	1.02	25.86	222.4	600.	5.93	34.31	27.04	110.6	1.542
310.	11.22	34.17	3.91	1.51	26.11	198.3	700.	5.45	34.33	27.11	104.7	1.651
408.	8.12	34.13	2.96	1.88	26.59	152.3	800.	4.95	34.46	27.27	89.7	1.749
510.	6.73	34.21	1.52		26.85	128.0						
518.*	6.69	34.20	1.75	2.76	26.85	128.3						
610.	5.82	34.34		3.26	27.08	107.4						
813.	4.90	34.48	1.04	3.48	27.30	87.6						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.12
TEMPERATURE ERROR TERM AT 700. METERS IS 0.14
SALINITY ERROR TERM AT 700. METERS IS 0.07

CROMWELL 10, STATION 14, 20-32N LAT, 153-57W LONG, NOV. 11, 1964, 0900 G.C.T.		WET BULB 20.5			WIND SPEED 22, DIR. 07			BAR. 20	WEATHER 00	VIS.	CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
0.	24.88	34.71	4.83	0.33	23.18	470.2	0.	24.88	34.71	23.18	470.2	0.000
10.	24.86	34.71	4.84	0.38	23.19	470.0	10.	24.86	34.71	23.19	470.0	0.047
30.Δ	24.86	34.71			23.19	470.8	20.	24.86	34.71	23.19	470.3	0.095
50.Δ	24.86	34.71			23.19	471.6	30.	24.86	34.71	23.19	470.8	0.142
77.	23.58	34.94	5.09	0.27	23.74	419.7	50.	24.86	34.71	23.19	471.6	0.237
102.	22.29	35.00	5.00	0.32	24.16	380.9	75.	23.70	34.92	23.69	424.4	0.350
127.	20.81	34.95	4.74	0.38	24.53	346.3	100.	22.40	35.00	24.13	383.8	0.452
153.	19.24	34.93	4.38	0.52	24.93	309.1	150.	19.36	34.93	24.89	311.9	0.627
155.*	19.22*	34.93	4.38	0.57	24.93	308.7	200.	16.20	34.58	25.40	265.2	0.772
177.	17.94	34.79	4.25	0.60	25.14	288.7	250.	12.51	34.21	25.89	218.0	0.894
192.	16.76	34.65	4.23	0.77	25.32	272.2	300.	10.28	34.14	26.26	183.7	0.996
225.*	14.13*	34.34	3.98	1.16	25.67	239.3	400.	8.19	34.16	26.61	151.0	1.164
227.	13.92	34.32	3.96	1.04	25.70	236.5	500.	6.77	34.16	26.81	132.1	1.307
253.	12.40	34.20	4.08	1.15	25.91	216.4	600.	5.73	34.17	26.95	118.7	1.434
280.	10.98	34.14	4.25	1.28	26.13	195.6	700.	5.05	34.25	27.10	105.5	1.547
309.*	10.02	34.15	3.72	1.68	26.31	179.1	800.	4.53	34.33	27.22	94.0	1.648
405.*	8.12	34.16	2.77	2.20	26.62	150.0	1000.	3.96	34.50	27.41	76.5	1.821
603.*	5.70	34.17	1.16	3.34	26.96	118.4	1200.	3.42	34.54	27.50	68.6	1.968
1012.	3.95	34.51	1.16	3.08	27.42	75.6	1500.	2.80	34.58	27.59	60.2	2.164
1212.	3.39	34.54	1.33	2.60	27.50	68.3						
1512.	2.78	34.58	1.68	3.05	27.59	60.1						

TEMPERATURE ERROR TERM AT 700. METERS IS 0.11
TEMPERATURE ERROR TERM AT 800. METERS IS 0.15

ΔFROM BT DATA
*INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROWWELL DRY BULB 23.5		10, STATION WET BULB 20.4	15, 22- IN LAT, 153-56W LONG, NOV. 11, 1964, 1900 G.C.T.	WIND SPEED 20, DIR. 10	BAR. 22	WEATHER 03	VIS. 7	CLOUD TYPE 6, COVER 7				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.64	34.85	4.99	0.24	23.36	453.2	0.	24.64	34.85	23.36	453.2	0.000
11.Δ	24.67	34.84	4.91		23.34	455.2	10.	24.67	34.84	23.34	455.1	0.046
30.Δ	24.66	34.85			23.35	455.0	20.	24.68	34.84	23.34	455.8	0.092
50.Δ	24.52	34.89			23.42	448.9	30.	24.66	34.85	23.35	455.0	0.137
75.Δ	24.22	34.96			23.57	436.2	50.	24.52	34.89	23.42	448.9	0.229
106.	22.87	35.20	4.85	0.20	24.14	382.4	75.	24.22	34.96	23.57	436.2	0.340
133.	21.70	35.26	5.04	0.22	24.52	347.5	100.	23.17	35.15	24.02	393.8	0.445
159.	20.71	35.23	4.96	0.26	24.77	324.7	150.	21.06	35.25	24.69	331.9	0.627
186.	19.47	35.12	4.82	0.27	25.01	302.2	200.	18.59	34.98	25.13	291.6	0.785
212.	17.86	34.85	4.63	0.42	25.21	283.7	250.	15.78	34.59	25.50	256.9	0.923
237.	16.87	34.72	4.59	0.47	25.35	271.0	300.	12.33	34.27	25.98	210.9	1.041
265.	14.42	34.43	5.12	0.66	25.68	239.8	400.	8.83	34.06	26.43	168.2	1.232
291.	12.71	34.30	4.95	0.89	25.93	215.9	500.	6.51	34.10	26.80	133.1	1.384
316.	11.76	34.23	5.01	0.88	26.06	203.8	600.	5.46	34.20	27.01	112.7	1.508
420.	8.23	34.04	3.86	1.20	26.51	160.8	700.	4.97	34.31	27.15	99.8	1.616
523.	6.16	34.15	1.62	2.67	26.87	126.3	800.	4.64	34.41	27.27	89.5	1.711
627.	5.31	34.23	1.01	2.89	27.05	109.2	1000.	4.02	34.51	27.42	76.2	1.879
834.	4.56	34.44	1.00	2.55	27.30	86.6	1200.	3.46	34.55	27.51	68.1	2.025
1038.	3.90	34.52	1.17	3.02	27.44	74.5	1500.	2.83	34.60	27.60	59.4	2.219
1242.	3.36	34.56	1.41	2.73	27.52	66.7						
1549.	2.75	34.60	1.70	3.02	27.61	58.5						

CROWWELL DRY BULB 23.0		10, STATION WET BULB 21.5	16, 23-28N LAT, 153-57W LONG, NOV. 12, 1964, 0300 G.C.T.	WIND SPEED 19, DIR. 06	BAR. 21	WEATHER 20	VIS. 7	CLOUD TYPE 7, COVER 7				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.10	35.17	4.70	0.39	23.75	414.9	0.	24.10	35.17	23.76	414.8	0.000
9.	24.12	35.17	4.66	0.24	23.75	415.7	10.	24.12	35.17	23.76	415.7	0.042
50.Δ	24.06	35.17			23.77	415.6	20.	24.11	35.17	23.76	416.0	0.084
75.Δ	24.04	35.17			23.78	416.0	30.	24.10	35.17	23.76	416.0	0.126
100.Δ	24.02	35.17			23.78	416.4	50.	24.06	35.17	23.77	415.6	0.209
123.	21.82	35.20	4.84	0.28	24.44	354.6	75.	24.04	35.17	23.78	416.0	0.314
148.	20.73	35.12	4.59	0.33	24.68	332.7	100.	24.02	35.17	23.78	416.4	0.419
172.	19.40	35.00	4.50	0.35	24.94	308.6	150.	20.62	35.11	24.70	330.7	0.607
186.	18.64	34.92	4.48	0.42	25.07	296.3	200.	17.83	34.83	25.20	284.1	0.762
219.	16.58	34.69	4.48	0.59	25.39	266.1	250.	14.24	34.45	25.73	234.4	0.893
245.	14.47	34.47	4.36	0.71	25.70	237.3	300.	12.33	34.30	26.00	208.6	1.005
270.	13.51	34.38	4.43	0.96	25.83	225.1	400.	9.07	34.10	26.42	169.0	1.195
294.	12.56	34.32	4.69	0.95	25.97	211.6	500.	6.92	34.06	26.72	141.2	1.352
393.	9.26	34.11	4.31	1.25	26.40	171.2	600.	5.50	34.16	26.97	116.5	1.482
492.	7.06	34.06	2.86	2.17	26.69	143.4	700.	4.83	34.27	27.14	100.6	1.592
591.	5.58	34.15	1.35	2.75	26.96	118.2	800.	4.53	34.38	27.26	90.5	1.688
790.	4.56	34.37	0.84	2.80	27.25	91.3	1000.	4.03	34.49	27.40	78.3	1.859
987.	4.07	34.48	1.22	3.12	27.39	79.1	1200.	3.41	34.55	27.51	67.5	2.007
1185.	3.46	34.55	1.28	3.07	27.50	68.2						
1453.	2.82	34.58	1.65	3.16	27.59	60.2						

CROWWELL DRY BULB 23.2		10, STATION WET BULB 19.8	17, 23-30N LAT, 151-0W LONG, NOV. 12, 1964, 2300 G.C.T.	WIND SPEED 19, DIR. 11	BAR. 23	WEATHER 02	VIS. 7	CLOUD TYPE 6, COVER 7				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.73	35.24			23.92	399.3	0.	23.73	35.24	23.92	399.3	0.000
9.Δ	23.74	35.24			23.92	399.9	10.	23.74	35.24	23.92	400.0	0.040
50.Δ	23.74	35.24			23.92	401.5	20.	23.74	35.24	23.92	400.5	0.081
75.Δ	23.73	35.24			23.92	402.2	30.	23.75	35.24	23.92	400.9	0.121
95.	21.22	35.19			24.60	338.5	50.	23.74	35.24	23.92	401.5	0.202
120.	20.46	35.19			24.80	319.7	75.	23.73	35.24	23.92	402.2	0.303
137.	19.88	35.20			24.96	304.9	100.	20.97	35.19	24.66	332.3	0.396
165.	19.17	35.10			25.07	295.5	150.	19.55	35.17	25.03	299.5	0.555
181.	18.65	35.02			25.14	289.2	200.	17.41	34.81	25.29	275.3	0.700
214.	16.22	34.63			25.43	262.2	250.	13.49	34.29	25.77	230.6	0.827
233.	14.48	34.40			25.64	242.3	300.	11.60	34.24	26.10	199.6	0.936
261.	13.01	34.26			25.84	223.8	400.	9.08	34.10	26.42	169.5	1.122
284.	12.10	34.26			26.02	207.1	500.	6.87	34.03	26.70	142.9	1.279
382.	9.54	34.12			26.36	174.8	600.	5.55	34.11	26.93	120.6	1.412
483.	7.18	34.03			26.65	147.2	700.	4.85	34.25	27.12	102.7	1.525
575.	5.78	34.08			26.88	125.7	800.	4.50	34.39	27.27	89.5	1.622
772.	4.60	34.36			27.24	92.4	1000.	3.94	34.50	27.42	76.1	1.790
971.	4.01	34.49			27.40	77.5	1200.	3.45	34.56	27.51	67.3	1.935
1170.	3.53	34.54			27.49	69.7						
1471.	2.88	34.59			27.59	60.3						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB	10, 23.4	STATION WET BULB	10, 21.0	18-59N LAT, WIND SPEED	150-59W LONG, 20, DIR.	NCV. 13, 1964, BAR. 21	0900 G.C.T. 09	WEATHER	60	VIS.	CLOUD TYPE	COVER
DEPTH	TEMP.	SAL.	CLY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.04	35.02			23.67	423.9	0.	24.04	35.02	23.67	423.9	0.000
9.	24.17	35.03			23.65	425.8	10.	24.12	35.03	23.65	425.9	0.043
30.Δ	24.12	35.04			23.66	425.9	20.	24.14	35.04	23.65	426.2	0.086
50.Δ	24.12	35.05			23.66	425.9	30.	24.12	35.04	23.66	425.9	0.129
75.Δ	24.12	35.05			23.66	426.9	50.	24.12	35.05	23.66	425.9	0.214
100.Δ	24.02	35.05			23.72	422.9	75.	24.12	35.05	23.66	426.9	0.322
121.	22.23	35.15			24.29	369.2	100.	24.02	35.08	23.72	422.9	0.429
144.	21.92	35.18			24.51	348.9	150.	21.34	35.20	24.57	343.0	0.622
168.	20.76	35.23			24.75	326.3	200.	19.07	35.00	25.04	300.1	0.784
182.	20.24	35.19			24.86	316.4	250.	14.69	34.45	25.63	243.5	0.921
215.	17.71	34.80			25.21	283.9	300.	11.67	34.15	26.01	207.8	1.035
241.	15.27	34.51			25.56	250.2	400.	8.31	34.09	26.53	158.2	1.219
265.	13.98	34.36			25.74	233.8	500.	7.20	34.26	26.83	130.7	1.365
289.	12.26	34.19			25.93	215.4	600.	6.29	34.37	27.04	111.6	1.488
385.	8.60	34.07			26.47	163.6	700.	5.41	34.40	27.17	98.8	1.594
482.	7.34	34.23			26.79	134.7						
579.	6.68	34.37			26.99	116.5						
774.	4.75	34.37			27.23	93.5						

TEMPERATURE ERROR TEMP AT 600. METERS IS 0.14
 TEMPERATURE ERROR TEMP AT 700. METERS IS 0.11

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB	10, 23.9	STATION WET BULB	19, 22.0	20-28N LAT, WIND SPEED	150-58W LONG, 25, DIR.	NCV. 13, 1964, BAR. 20	1900 G.C.T. 08	WEATHER	16	VIS. 6	CLOUD TYPE 6,	COVER 8
DEPTH	TEMP.	SAL.	CLY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.19	35.05			23.64	426.0	0.	24.19	35.05	23.64	426.0	0.000
11.	24.18	35.05			23.65	426.1	10.	24.18	35.05	23.65	426.1	0.043
30.Δ	24.18	35.05			23.65	426.9	20.	24.18	35.05	23.65	426.4	0.086
50.Δ	24.18	35.05			23.65	427.6	30.	24.18	35.05	23.65	426.9	0.129
76.	22.97	35.12			24.05	389.8	50.	24.18	35.05	23.65	427.6	0.215
100.	21.90	35.17			24.36	361.7	75.	23.03	35.12	24.03	391.5	0.318
124.	21.30	35.22			24.60	339.5	100.	21.90	35.12	24.36	361.7	0.413
151.	19.89	35.01			24.82	319.4	150.	19.95	35.02	24.81	320.1	0.585
174.	18.65	34.89			25.04	298.3	200.	16.99	34.67	25.28	276.1	0.735
189.	17.80*	34.76			25.16	280.0	250.	12.86	34.23	25.84	222.8	0.861
222.	15.17	34.49			25.56	249.9	300.	10.33	34.11	26.22	187.4	0.964
248.	12.99	34.24			25.83	224.6	400.	7.55	34.03	26.60	151.3	1.135
274.	11.52	34.16			26.05	203.6	500.	5.74	34.07	26.87	125.0	1.274
298.	10.41	34.11			26.21	188.4	600.	5.22	34.24	27.07	106.8	1.392
395.	7.67	34.03			26.58	152.8	700.	4.78	34.36	27.21	93.8	1.493
493.	5.80	34.06			26.86	126.5	800.	4.42	34.44	27.32	84.6	1.583
591.	5.26	34.23			27.06	108.2	1000.	3.90	34.53	27.44	73.5	1.743
801.	4.42	34.44			27.32	84.5	1200.	3.41	34.56	27.52	67.0	1.885
1003.	3.89	34.53			27.45	73.4	1500.	2.77	34.60	27.61	58.4	2.076
1203.	3.40	34.56			27.52	66.9						
1504.	2.76	34.60			27.61	58.4						

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB	10, 24.8	STATION WET BULB	20, 22.5	18-59N LAT, WIND SPEED	151- 1W LONG, 20, DIR.	NOV. 14, 1964, BAR. 15	0400 G.C.T. 02	WEATHER	02	VIS. 6	CLOUD TYPE	COVER 8
DEPTH	TEMP.	SAL.	CLY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.65	34.69			23.23	465.0	0.	24.65	34.69	23.23	465.0	0.000
12.Δ	24.70	34.70			23.23	466.2	10.	24.69	34.70	23.23	466.0	0.047
30.Δ	24.78	34.71			23.21	468.5	20.	24.74	34.70	23.22	467.3	0.094
50.Δ	24.78	34.72			23.22	468.6	30.	24.78	34.71	23.21	468.5	0.141
75.Δ	24.52	34.81			23.36	455.6	50.	24.78	34.72	23.22	468.6	0.235
99.	23.09	35.05			23.97	399.0	75.	24.52	34.81	23.36	455.6	0.352
123.	21.77	35.11			24.40	358.5	100.	23.03	35.06	23.99	397.0	0.459
148.	20.44	35.02			24.68	332.5	150.	20.41	35.03	24.70	331.0	0.643
173.	19.85	35.10			24.90	312.7	200.	17.68	34.79	25.21	283.3	0.798
187.	18.75	34.94			25.06	297.6	250.	12.84	34.25	25.87	220.7	0.925
221.	15.77	34.55			25.47	258.4	300.	10.73	34.16	26.19	190.4	1.028
247.	13.04	34.27			25.84	223.3	400.	8.31	34.16	26.59	152.8	1.201
272.	11.69	34.18			26.03	205.2	500.	6.58	34.22	26.88	124.9	1.342
330.	10.00	34.17			26.32	177.7	600.	5.78	34.33	27.08	107.3	1.459
399.	8.33	34.16			26.59	153.1	700.	5.44	34.44	27.20	96.6	1.562
538.	6.14	34.26			26.97	116.7	800.	4.99	34.48	27.29	88.3	1.655
678.	5.54	34.42			27.17	98.7	1000.	4.21	34.52	27.41	77.6	1.823
817.	4.92	34.49			27.30	87.2						
1030.	4.10	34.52			27.42	76.9						

ΔFROM BT DATA
 *INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 10, STATION 21, 17-30N LAT, 151-0W LONG, NOV. 14, 1964, 1400 G.C.T.		WET BULB 22.8		WIND SPEED 16, DIR. 13		BAR. 16		WEATHER 01		VIS.		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.15	34.09			22.63	522.7	0.	25.15	34.09	22.63	522.7	0.000	
11.	25.14	34.09			22.63	522.9	10.	25.14	34.09	22.63	522.8	0.053	
30.Δ	25.14	34.09			22.63	523.6	20.	25.14	34.07	22.61	525.0	0.105	
51.	25.08	34.55			23.00	489.6	30.	25.14	34.09	22.63	523.6	0.158	
77.	23.09	35.01			23.94	401.0	50.	25.10	34.52	22.97	492.0	0.261	
126.	20.89	35.16			24.66	333.2	75.	23.27	34.98	23.86	408.0	0.374	
153.	19.62	35.09			24.95	306.9	100.	21.94	35.16	24.38	359.8	0.471	
177.	18.00	34.85			25.18	285.8	150.	19.78	35.11	24.92	309.6	0.639	
192.	16.64	34.65			25.35	269.5	200.	15.73	34.53	25.47	258.1	0.782	
227.	12.80	34.24			25.86	220.4	250.	11.24	34.23	26.15	193.0	0.896	
254.	11.04	34.24			26.20	188.7	300.	9.72	34.36	26.52	158.2	0.985	
279.	10.14	34.32			26.42	167.9	400.	8.64	34.47	26.78	135.2	1.133	
305.	9.64	34.37			26.54	156.5	500.	7.38	34.47	26.97	117.6	1.260	
406.	8.59	34.47			26.79	134.4	600.	6.46	34.46	27.09	107.0	1.374	
506.	7.30	34.47			26.98	116.8	700.	5.76	34.48	27.19	97.5	1.477	
608.	6.40	34.46			27.10	106.3	800.	5.19	34.51	27.28	89.2	1.571	
809.	5.15	34.51			27.29	88.6	1000.	4.37	34.53	27.39	79.3	1.742	
1010.	4.34	34.53			27.40	78.9	1200.	3.73	34.56	27.48	71.0	1.894	
1210.	3.70	34.56			27.49	70.6	1500.	2.93	34.60	27.59	60.5	2.094	
1511.	2.91	34.60			27.60	60.2	2000.	2.14	34.64	27.70	50.3	2.376	
1949.	2.19	34.64			27.69	50.9	2500.	1.82	34.66	27.74	46.9	2.623	
2447.	1.85	34.66			27.73	47.2	3000.	1.62	34.68	27.77	44.5	2.857	
2946.	1.66	34.68			27.76	44.9							
3943.	1.48	34.70			27.79	43.7							

CROMWELL 10, STATION 22, 15-58N LAT, 151-0W LONG, NOV. 15, 1964, 0100 G.C.T.		WET BULB 23.5		WIND SPEED 10, DIR. 13		BAR. 14		WEATHER 16		VIS. 7		CLOUD TYPE 7, COVER 9	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.47	33.81			22.32	552.2	0.	25.47	33.81	22.32	552.2	0.000	
9.	25.43	33.81			22.33	551.4	10.	25.43	33.81	22.33	551.4	0.056	
30.Δ	25.38	33.81			22.35	550.8	20.	25.40	33.81	22.34	551.1	0.111	
50.Δ	25.32	33.84			22.39	547.6	30.	25.38	33.81	22.35	550.8	0.167	
74.	21.96	34.51			23.88	406.4	50.	25.32	33.84	22.39	547.6	0.277	
98.	18.27	34.56			24.89	310.6	75.	21.80	34.52	23.93	401.5	0.397	
124.	15.13	34.43			25.52	250.5	100.	18.01	34.55	24.95	305.0	0.486	
148.	12.60	34.34			25.98	207.2	150.	12.44	34.34	26.01	204.5	0.614	
172.	10.99	34.30			26.25	181.4	200.	9.99	34.31	26.43	164.7	0.707	
187.	10.09	34.23			26.36	171.8	250.	9.59	34.45	26.61	148.7	0.786	
221.	10.14	34.47			26.53	155.7	300.	9.18	34.48	26.70	140.9	0.859	
246.	9.65	34.45			26.60	149.6	400.	7.92	34.45	26.87	125.5	0.994	
271.	9.35	34.46			26.66	144.5	500.	6.88	34.46	27.03	111.4	1.113	
296.	9.22	34.48			26.70	141.5	600.	6.09	34.47	27.15	101.1	1.220	
393.	8.00	34.45			26.86	126.6	700.	5.44	34.49	27.24	92.2	1.318	
489.	6.98	34.46			27.02	112.7	800.	4.91	34.51	27.32	85.2	1.408	
586.	6.19	34.47			27.13	102.4	1000.	4.14	34.53	27.42	76.0	1.571	
777.	5.02	34.51			27.31	86.5	1200.	3.62	34.56	27.50	69.4	1.718	
971.	4.22	34.53			27.41	77.1							
1163.	3.77	34.56			27.48	71.1							
1453.	3.14	34.59			27.57	63.4							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.15

CROMWELL 10, STATION 23, 14-30N LAT, 150-57W LONG, NOV. 15, 1964, 1000 G.C.T.		WET BULB 23.0		WIND SPEED 13, DIR. 11		BAR. 14		WEATHER 03		VIS.		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.67	34.17			22.53	532.2	0.	25.67	34.17	22.53	532.2	0.000	
10.	25.63	34.17			22.54	531.4	10.	25.63	34.17	22.54	531.4	0.054	
30.Δ	25.62	34.17			22.55	531.9	20.	25.63	34.17	22.54	532.0	0.107	
50.Δ	25.44	34.22			22.64	523.8	30.	25.62	34.17	22.55	531.9	0.161	
77.	21.04	34.66			24.24	371.4	50.	25.44	34.22	22.64	523.8	0.267	
102.	19.21	34.77			24.81	318.2	75.	21.40	34.63	24.12	383.4	0.361	
127.	14.76	34.40			25.58	245.1	100.	19.36	34.78	24.78	321.5	0.470	
153.	12.36	34.25			25.96	209.5	150.	12.56	34.26	25.92	212.6	0.605	
177.	10.78	34.22			26.23	183.9	200.	9.65	34.18	26.39	168.4	0.701	
191.	10.05	34.21			26.35	172.7	250.	9.20	34.36	26.61	148.8	0.781	
226.	9.00	34.17			26.49	159.5	300.	8.76	34.46	26.76	135.6	0.852	
253.	9.24	34.39			26.62	147.6	400.	8.03	34.55	26.93	120.1	0.981	
278.	9.09	34.46			26.70	140.5	500.	7.14	34.53	27.05	109.7	1.097	
304.	8.69	34.46			26.76	134.8	600.	6.43	34.52	27.14	102.2	1.204	
404.	8.01	34.55			26.94	119.6	700.	5.77	34.52	27.23	94.5	1.304	
505.	7.09	34.53			27.06	109.3	800.	5.19	34.53	27.30	87.5	1.396	
606.	6.39	34.52			27.14	101.7	1000.	4.40	34.55	27.41	78.2	1.563	
807.	5.15	34.54			27.31	87.1	1200.	3.74	34.57	27.49	70.4	1.714	
1007.	4.38	34.55			27.41	77.9	1500.	3.04	34.60	27.58	61.7	1.915	
1208.	3.72	34.57			27.49	70.1							
1509.	3.02	34.60			27.59	61.5							

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA						
CROMWELL 10, STATION 24, 13- IN LAT, 150-53W LONG, NOV. 15, 1964, 1900 G.C.T.														
DRY BULB	26.4	WET BULB	23.8	WIND SPEED	15, DIR. 08	BAR.	14	WEATHER	01	VIS.	8	CLOUD TYPE	4, COVER	7
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.89	33.62			22.05	578.3	0.	25.89	33.62	22.05	578.3	0.000		
10.	25.88	33.62			22.05	578.4	10.	25.88	33.62	22.05	578.4	0.058		
20.Δ	25.88	33.62			22.05	578.8	20.	25.88	33.62	22.05	578.8	0.117		
30.Δ	25.88	33.62			22.05	579.2	30.	25.88	33.62	22.05	579.2	0.175		
50.	22.92	34.66			23.72	420.6	50.	22.92	34.66	23.72	420.6	0.276		
75.	20.94	34.91			24.46	350.7	75.	20.94	34.91	24.46	350.7	0.373		
100.	15.49	34.49			25.49	253.1	100.	15.49	34.49	25.49	253.1	0.449		
124.	12.82	34.26			25.87	216.7	150.	11.42	34.28	26.15	190.5	0.561		
149.	11.45	34.27			26.14	191.3	200.	10.96	34.61	26.50	159.0	0.649		
173.	11.10	34.44			26.34	173.2	250.	10.15	34.61	26.64	146.1	0.726		
187.	11.13	34.56			26.43	165.3	300.	9.64	34.62	26.74	138.0	0.797		
221.	10.55	34.62			26.58	151.6	400.	8.67	34.60	26.88	126.1	0.930		
247.	10.18	34.61			26.64	146.6	500.	7.61	34.55	27.00	115.5	1.052		
297.	9.67	34.62			26.73	138.4	600.	6.72	34.53	27.11	105.6	1.164		
394.	8.73	34.60			26.87	126.8	700.	6.03	34.52	27.19	98.2	1.267		
492.	7.69	34.55			26.99	116.3	800.	5.48	34.52	27.26	91.9	1.363		
589.	6.80	34.53			27.10	106.5	1000.	4.53	34.55	27.39	79.7	1.537		
787.	5.55	34.52			27.25	92.8	1200.	3.84	34.57	27.49	71.2	1.689		
983.	4.60	34.55			27.39	80.5								
1179.	3.94	34.57			27.47	72.6								
1477.	3.18	34.60			27.57	63.3								

CROMWELL 10, STATION 25, 11-22N LAT, 151- 0W LONG, NOV. 16, 1964, 0500 G.C.T.													
DRY BULB	25.5	WET BULB	24.0	WIND SPEED	10, DIR. 11	BAR.	13	WEATHER	02	VIS.		CLOUD TYPE	, COVER
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.68	33.77			22.23	561.3	0.	25.68	33.77	22.23	561.3	0.000	
8.	25.69	33.78			22.23	561.2	10.	25.74	33.78	22.21	563.2	0.057	
20.Δ	25.62	33.83			22.29	556.0	20.	25.62	33.83	22.29	556.0	0.113	
30.Δ	24.20	34.12			22.94	494.5	30.	24.20	34.12	22.94	494.5	0.166	
48.	17.56	34.63			25.12	287.3	50.	17.08	34.63	25.23	276.3	0.244	
75.	13.29	34.46			25.94	209.7	75.	13.29	34.46	25.94	209.7	0.305	
99.	12.02	34.64			26.32	173.2	100.	11.99	34.64	26.33	172.3	0.353	
125.	11.45	34.71			26.49	158.4	150.	11.16	34.73	26.56	152.4	0.435	
150.	11.16	34.73			26.56	152.4	200.	10.59	34.73	26.66	143.3	0.509	
175.	10.90	34.74			26.61	147.7	250.	10.12	34.72	26.73	137.5	0.590	
190.	10.72	34.74			26.64	144.9	300.	9.83	34.72	26.78	133.8	0.648	
224.	10.30	34.72			26.70	140.0	400.	9.03	34.66	26.87	127.0	0.780	
250.	10.17	34.72			26.73	137.5	500.	8.21	34.61	26.96	119.8	0.905	
276.	9.98	34.72			26.76	135.8	600.	7.22	34.57	27.07	109.6	1.020	
302.	9.82	34.72			26.78	133.7	700.	6.44	34.55	27.16	101.2	1.127	
403.	9.00	34.66			26.87	126.8	800.	5.80	34.55	27.24	94.1	1.226	
505.	8.17	34.61			26.96	119.4	1000.	4.73	34.56	27.38	81.6	1.403	
605.	7.17	34.57			27.08	109.1	1200.	3.99	34.60	27.49	71.3	1.558	
807.	5.76	34.55			27.25	93.6	1500.	3.17	34.61	27.58	62.6	1.762	
1010.	4.68	34.56			27.38	81.0							
1209.	3.96	34.60			27.49	70.9							
1510.	3.15	34.61			27.58	62.4							

CROMWELL 10, STATION 26, 10-10N LAT, 147-59W LONG, NOV. 17, 1964, 0200 G.C.T.														
DRY BULB	23.8	WET BULB	22.5	WIND SPEED	04, DIR. 33	BAR.	10	WEATHER	03	VIS.	8	CLOUD TYPE	6, COVER	8
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	25.44	33.75	4.60	0.38	22.29	555.7	0.	25.44	33.75	22.29	555.7	0.000		
11.	25.42	33.77	4.74	0.37	22.31	554.1	10.	25.44	33.77	22.30	555.0	0.056		
20.Δ	25.00	33.91			22.46	539.3	20.	25.00	33.81	22.46	539.3	0.111		
30.Δ	19.60	34.01			24.13	380.4	30.	19.60	34.01	24.13	380.4	0.157		
52.	14.38	34.38	3.27	1.27	25.65	236.6	50.	14.59	34.35	25.58	243.0	0.220		
78.	12.64	34.60	0.75	2.48	26.17	187.1	75.	12.70	34.58	26.15	189.4	0.275		
103.	11.66	34.70	0.37	2.73	26.44	162.4	100.	11.74	34.69	26.42	164.4	0.319		
128.	11.26	34.73	0.41	2.44	26.54	153.7	150.	10.94	34.73	26.60	148.5	0.398		
153.	10.90	34.73	0.34	2.12	26.60	147.9	200.	10.36	34.72	26.69	140.6	0.471		
177.	10.57	34.73	0.37	2.53	26.66	142.8	250.	9.93	34.71	26.76	134.9	0.540		
192.	10.43	34.72	0.44	2.79	26.68	141.5	300.	9.53	34.68	26.80	131.7	0.608		
227.	10.14	34.72	0.57	2.73	26.73	137.4	400.	8.83	34.64	26.88	125.5	0.737		
253.	9.90	34.71	0.56	3.26	26.76	134.7	500.	7.97	34.59	26.98	117.4	0.860		
279.	9.75	34.70	0.66	2.32	26.78	133.5	600.	6.94	34.55	27.10	107.0	0.973		
303.	9.50	34.68	0.53	2.75	26.81	131.4	700.	6.13	34.54	27.19	98.2	1.077		
404.	8.81	34.64	0.34	2.48	26.89	125.3	800.	5.49	34.54	27.27	90.8	1.173		
507.	7.90	34.59	0.34	2.63	26.99	116.8	1000.	4.55	34.57	27.41	78.6	1.344		
607.	6.87	34.55	0.41	3.11	27.10	106.3	1200.	3.85	34.58	27.49	70.9	1.495		
808.	5.45	34.54	0.84	3.22	27.28	90.3	1500.	3.08	34.61	27.59	61.5	1.697		
1008.	4.52	34.57	1.04	3.20	27.41	78.2	2000.	2.23	34.65	27.69	50.9	1.983		
1208.	3.83	34.58	1.43	2.84	27.49	70.7	2500.	1.89	34.67	27.74	47.2	2.232		
1509.	3.06	34.61	1.76	3.16	27.59	61.3	3000.	1.70	34.68	27.76	45.6	2.469		
2014.	2.21	34.65	2.27	3.14	27.70	50.7	4000.	1.46	34.70	27.79	43.6	2.926		
2517.	1.88	34.67	2.55	2.34	27.74	47.1								
3019.	1.69	34.68	2.90	2.76	27.76	45.6								
4009.	1.46	34.70	3.56	2.43	27.79	43.6								

AFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 10, STATION 27, 11-19N LAT, 147-56W LONG, NOV. 17, 1964, 1100 G.C.T.		WET BULB 23.4		WIND SPEED 12, DIR. 02		BAR. 13 WEATHER 03		VIS. 6		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.43	33.64	4.62	0.55	22.21	563.3	0.	25.43	33.64	22.21	563.3	0.000
10.	25.49	33.65	4.70	0.55	22.20	564.7	10.	25.49	33.65	22.20	564.7	0.057
20.	25.48	33.65			22.20	564.8	20.	25.48	33.65	22.20	564.8	0.114
30.	25.40	33.68			22.25	560.7	30.	25.40	33.68	22.25	560.7	0.170
50.	17.92	34.53	4.12	0.97	24.95	304.0	50.	17.92	34.53	24.95	303.9	0.257
76.	15.60	34.48	3.80	1.03	25.46	255.5	75.	15.63	34.50	25.46	254.9	0.328
99.	12.18	34.30	2.15	2.11	26.03	201.1	100.	12.11	34.30	26.05	199.6	0.385
124.	11.24	34.47	1.13	2.89	26.34	172.3	150.	11.22	34.64	26.47	160.1	0.476
150.	11.22	34.64	0.36	3.24	26.47	160.1	200.	10.59	34.69	26.62	146.9	0.553
173.	11.00	34.68	0.30	2.74	26.55	153.8	250.	10.08	34.66	26.69	141.3	0.626
188.	10.75	34.69	0.22	3.20	26.66	149.1	300.	9.45	34.64	26.78	133.7	0.695
222.	10.35	34.67	0.22	3.36	26.65	144.5	400.	8.13	34.58	26.94	119.5	0.823
248.	10.10	34.66	0.11	2.87	26.69	141.6	500.	7.14	34.52	27.04	110.7	0.939
272.	9.83	34.65	0.20	2.86	26.73	138.3	600.	6.36	34.51	27.14	101.9	1.046
296.	9.51	34.64	0.25	2.89	26.77	134.3	700.	5.70	34.51	27.23	94.3	1.145
394.	8.20	34.58	0.45	2.64	26.93	120.1	800.	5.17	34.52	27.30	87.8	1.237
494.	7.19	34.52	0.39	3.02	27.04	111.3	1000.	4.40	34.55	27.41	77.9	1.405
591.	6.42	34.51	0.63	3.29	27.13	102.7	1200.	3.75	34.57	27.50	70.0	1.555
788.	5.22	34.52	0.75	3.36	27.29	88.5						
985.	4.45	34.55	1.19	3.33	27.40	78.6						
1182.	3.80	34.57	1.47	3.20	27.49	70.8						
1479.	3.04	34.60	1.74	3.20	27.58	61.6						

CROMWELL 10, STATION 28, 13- ON LAT, 148- 1W LONG, NOV. 17, 1964, 2100 G.C.T.		WET BULB 23.6		WIND SPEED 12, DIR. 07		BAR. 13 WEATHER 60		VIS. 8		CLOUD TYPE 4, COVER 7		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	25.73	33.72	5.40	0.44	22.17	566.4	0.	25.73	33.72	22.17	566.4	0.000
11.	25.66	33.73	5.39	0.48	22.20	564.0	10.	25.66	33.73	22.20	564.1	0.057
30.	25.66	33.73			22.20	564.8	20.	25.65	33.73	22.21	564.0	0.114
50.	25.66	33.73			22.20	565.5	30.	25.66	33.73	22.20	564.8	0.171
75.	21.85	34.89	5.97	0.45	24.20	376.0	50.	25.66	33.73	22.20	565.5	0.264
100.	20.40	35.01	5.53	0.48	24.68	330.5	75.	21.85	34.89	24.20	376.0	0.403
124.	17.45	34.69	4.89	0.76	25.19	282.8	100.	20.40	35.01	24.68	330.5	0.492
151.	13.77	34.34	3.35	1.71	25.74	230.0	150.	13.89	34.35	25.73	231.8	0.634
174.	12.04	34.43	1.54	2.22	26.16	190.9	200.	11.02	34.56	26.45	163.4	0.733
189.	11.27	34.50	1.46	2.36	26.36	172.2	250.	10.54	34.67	26.62	148.3	0.812
222.	10.82	34.66	0.46	2.67	26.56	153.3	300.	9.76	34.66	26.71	140.4	0.885
248.	10.56	34.67	0.40	2.67	26.62	148.7	400.	8.79	34.60	26.86	127.9	1.020
273.	10.30	34.68	0.32	2.62	26.67	144.0	500.	7.73	34.56	26.99	116.5	1.143
298.	9.98	34.66	0.27	2.80	26.71	140.7	600.	6.79	34.52	27.09	107.4	1.256
396.	8.83	34.60	0.40	2.98	26.85	128.4	700.	5.93	34.52	27.20	97.1	1.360
495.	7.78	34.56	0.40	3.00	26.98	117.0	800.	5.23	34.53	27.30	87.9	1.453
592.	6.87	34.52	0.54	3.07	27.08	108.2	1000.	4.40	34.56	27.42	77.3	1.620
787.	5.30	34.53	0.80	3.30	27.29	88.8	1200.	3.70	34.58	27.50	69.2	1.769
984.	4.46	34.56	0.95	3.20	27.41	78.0						
1179.	3.77	34.57	1.18	3.16	27.45	70.5						
1478.	2.99	34.61	2.00	3.09	27.60	60.2						

CROMWELL 10, STATION 29, 14-28N LAT, 147-59W LONG, NOV. 18, 1964, 0500 G.C.T.		WET BULB 22.6		WIND SPEED 11, DIR. 11		BAR. 14 WEATHER 63		VIS. 4		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.56	33.76	5.62	0.79	22.26	558.5	0.	25.56	33.76	22.26	558.5	0.000
10.	25.64	34.14	5.69		22.52	533.9	10.	25.64	34.14	22.52	533.9	0.055
30.	25.60	34.22			22.59	527.7	20.	25.64	34.24	22.59	527.2	0.108
50.	25.50	34.28			22.67	521.2	30.	25.60	34.22	22.59	527.7	0.162
78.	22.02	34.82	6.12	0.32	24.10	385.7	50.	25.50	34.28	22.67	521.2	0.267
100.	20.81	34.92	5.82	0.31	24.50	347.5	75.	22.43	34.76	23.93	401.1	0.343
125.	19.06	34.86	5.28	0.55	24.92	308.8	100.	20.81	34.92	24.50	347.5	0.478
151.	15.11	34.43	3.55	2.89	25.53	250.9	150.	15.27	34.45	25.50	253.1	0.629
176.	12.76	34.44	1.73	2.17	26.03	203.7	200.	11.78	34.59	26.33	175.3	0.737
190.	12.11	34.55	1.70	2.52	26.24	183.8	250.	10.51	34.60	26.57	153.0	0.820
223.	11.20	34.61	0.67		26.45	163.7	300.	10.19	34.66	26.67	144.2	0.895
250.	10.51	34.60	0.67	2.58	26.57	153.0	400.	9.03	34.62	26.84	130.2	1.033
274.	10.40	34.65	0.30	2.41	26.63	143.0	500.	7.98	34.56	26.95	120.1	1.159
299.	10.20	34.66	0.22	2.49	26.67	144.4	600.	7.13	34.53	27.05	111.4	1.276
398.	9.05	34.62	0.18	3.21	26.83	130.4	700.	6.24	34.52	27.16	101.1	1.384
499.	7.99	34.56	0.41	2.93	26.95	120.2	800.	5.46	34.52	27.26	91.8	1.481
598.	7.15	34.53	0.57	2.71	27.05	111.6	1000.	4.58	34.54	27.38	81.1	1.656
797.	5.48	34.52	1.02	2.69	27.26	97.0	1200.	3.87	34.56	27.47	72.5	1.812
996.	4.60	34.54		3.24	27.38	81.3						
1196.	3.89	34.56	1.38	3.07	27.47	72.8						
1494.	3.11	34.60	2.24	3.11	27.58	62.5						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 10, STATION 30, 15-55N LAT, 147-56W LONG, NOV. 18, 1964, 1400 G.C.T.		DRY BULB 24.4 WET BULB 21.9 WIND SPEED 08, DIR. 07 BAR. 13 WEATHER 01 VIS. CLOUD TYPE , COVER 2										
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.06	33.86	4.91	0.59	22.48	536.7	0.	25.06	33.86	22.48	536.7	0.000
10.	25.10	33.86	5.03	0.32	22.47	538.2	10.	25.10	33.86	22.47	538.2	0.054
30.Δ	25.00	33.98			22.59	527.5	20.	25.00	33.90	22.51	535.2	0.108
50.Δ	24.60	34.24			22.91	498.0	30.	25.00	33.98	22.59	527.5	0.162
52.	23.70	34.60	5.18	0.59	23.45	446.6	50.	24.60	34.24	22.91	498.0	0.265
76.	21.34	34.86	5.23	0.35	24.31	364.8	75.	21.27	34.92	24.38	358.2	0.373
101.	20.60	35.22	4.92	0.30	24.79	320.5	100.	20.62	35.21	24.78	321.7	0.459
126.	18.71	34.97	4.58	0.43	25.09	292.4	150.	15.14	34.45	25.54	249.8	0.603
152.	14.82	34.41		0.56	25.58	246.3	200.	10.84	34.19	26.19	187.7	0.713
176.	12.07	34.19		1.39	25.97	209.1	250.	10.06	34.42	26.51	158.9	0.800
196.	11.01	34.18	3.29	1.69	26.16	191.3	300.	9.48	34.50	26.67	144.3	0.877
225.	10.15	34.30	2.95	2.22	26.40	168.4	400.	8.02	34.49	26.89	124.0	1.012
251.	10.06	34.42	1.29	2.58	26.51	158.6	500.	7.07	34.49	27.03	111.9	1.131
277.	9.75	34.49	0.31		26.62	148.9	600.	6.26	34.50	27.14	101.4	1.239
302.	9.46	34.50	0.69	2.69	26.67	144.0	700.	5.60	34.51	27.24	93.1	1.337
402.	7.99	34.49	0.43	2.78	26.90	123.7	800.	5.05	34.52	27.31	86.5	1.428
503.	7.05	34.49	0.55	3.24	27.03	111.7	1000.	4.24	34.54	27.42	76.9	1.593
602.	6.25	34.50	0.55	3.16	27.15	101.3	1200.	3.62	34.57	27.50	69.0	1.741
801.	5.05	34.52	0.81	3.39	27.31	86.5						
995.	4.26	34.54	1.02	3.31	27.41	77.1						
1188.	3.69	34.57	1.24	3.11	27.50	69.6						
1476.	2.94	34.60	1.58	2.86	27.59	60.3						

SALINITY ERROR TERM AT 75. METERS IS 0.05

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 10, STATION 31, 17-30N LAT, 147-58W LONG, NOV. 18, 1964, 2400 G.C.T.		DRY BULB 24.0 WET BULB 21.0 WIND SPEED 10, DIR. 05 BAR. 15 WEATHER 01 VIS. 8 CLOUD TYPE 8, COVER 2										
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.06	33.94	4.78	0.28	22.54	530.9	0.	25.06	33.94	22.54	530.9	0.000
10.	24.78	33.94	5.01	0.27	22.63	523.2	10.	24.78	33.94	22.63	523.2	0.053
30.Δ	24.68	33.94			22.66	521.1	20.	24.69	33.94	22.66	520.9	0.106
50.Δ	24.68	33.94			22.66	521.9	30.	24.68	33.94	22.66	521.1	0.158
76.	23.10	35.12	5.26	0.26	24.02	393.4	50.	24.68	33.94	22.66	521.9	0.263
97.	20.99	34.93	5.08	0.31	24.46	351.4	75.	23.19	35.08	23.96	398.9	0.379
128.	20.02	35.02	4.78	0.32	24.79	321.1	100.	20.87	34.94	24.50	347.9	0.473
153.	18.33	34.86	4.47	0.46	25.10	292.1	150.	18.58	34.89	25.06	295.9	0.635
177.	15.63	34.52	4.13	0.77	25.48	256.2	200.	12.85	34.26	25.87	219.5	0.765
192.	13.53	34.31	3.93	1.02	25.77	228.5	250.	10.11	34.12	26.26	181.8	0.867
227.	9.96	34.18	3.94		26.09	198.4	300.	9.87	34.44	26.55	155.4	0.952
254.	9.96	34.12	4.10	1.60	26.29	179.1	400.	8.38	34.46	26.81	131.9	1.096
279.	10.01	34.34	1.87	2.13	26.46	164.3	500.	7.16	34.44	26.98	116.8	1.222
305.	9.82	34.45	1.02	2.24	26.57	153.6	600.	6.37	34.45	27.09	106.7	1.335
406.	8.24	34.45	0.63	2.07	26.82	131.1	700.	5.74	34.47	27.19	98.0	1.438
507.	7.09	34.44	0.54	2.93	26.99	116.0	800.	5.20	34.49	27.27	90.8	1.534
608.	6.32	34.45	0.54	2.93	27.10	106.0	1000.	4.37	34.51	27.38	80.8	1.707
809.	5.16	34.49	0.88	2.88	27.27	90.2	1200.	3.68	34.55	27.48	71.2	1.861
1011.	4.33	34.51	1.03	3.02	27.38	80.3	1500.	2.91	34.59	27.59	60.9	2.062
1211.	3.65	34.55	1.19	3.08	27.49	70.7	2000.	2.15	34.63	27.68	51.4	2.348
1512.	2.88	34.59	1.54	3.02	27.59	60.6	2500.	1.80	34.66	27.74	46.8	2.598
2011.	2.14	34.63	2.24	2.13	27.69	51.3	3000.	1.61	34.68	27.77	44.5	2.831
2508.	1.80	34.66	2.72	2.40	27.74	46.7	4000.	1.45	34.69	27.79	44.1	3.284
3015.	1.61	34.68	3.00	2.30	27.77	44.4	5000.	1.40	34.71	27.81	44.3	3.740
4004.	1.45	34.69	3.57	2.73	27.79	44.1						
5000.**	1.40**	34.71	4.04	2.82	27.81	44.3						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.10

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 10, STATION 32, 19-2N LAT, 147-59W LONG, NOV. 19, 1964, 1100 G.C.T.		DRY BULB 23.4 WET BULB 20.9 WIND SPEED 04, DIR. 04 BAR. 14 WEATHER 00 VIS. CLOUD TYPE , COVER										
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.56	34.74	5.14	0.37	23.30	458.9	0.	24.56	34.74	23.30	458.9	0.000
9.	24.57	34.73	5.12	1.61	23.29	460.2	10.	24.57	34.73	23.29	460.2	0.046
30.Δ	24.50	34.73			23.31	459.0	20.	24.54	34.73	23.29	460.1	0.093
50.Δ	24.42	34.74			23.34	456.8	30.	24.50	34.73	23.31	459.0	0.139
75.Δ	23.90	34.83			23.56	436.5	50.	24.42	34.74	23.34	456.8	0.231
101.	21.28	35.15	5.32	0.20	24.55	343.2	75.	23.90	34.83	23.56	436.5	0.344
124.	20.73	35.24	5.05	0.18	24.77	323.2	100.	21.38	35.14	24.51	346.7	0.442
151.	19.88	35.15	4.85	0.27	24.93	309.0	150.	19.92	35.16	24.92	309.5	0.608
174.	18.59	34.98	4.86	0.35	25.13	290.4	200.	16.63	34.68	25.38	267.1	0.753
188.	17.54	34.82	4.88		25.27	277.6	250.	12.74	34.21	25.85	221.8	0.876
221.	15.01	34.46	4.85	0.57	25.57	248.6	300.	9.87	34.08	26.27	181.8	0.978
247.	12.93	34.23	4.86	0.80	25.83	224.1	400.	7.38	34.12	26.69	142.3	1.142
272.	11.49	34.13	4.76	1.07	26.03	205.2	500.	5.78	34.22	26.98	114.7	1.271
296.	10.04	34.08	4.23	1.29	26.25	184.3	600.	5.16	34.30	27.12	102.1	1.381
394.	7.50	34.12	2.44	2.12	26.68	143.7	700.	4.63	34.37	27.24	91.3	1.478
473.	6.10	34.14	1.65	2.44	26.88	124.2	800.	4.44	34.48	27.35	81.5	1.566
492.	5.78	34.18	1.14	3.27	26.95	117.3	1000.	4.00	34.53	27.43	74.7	1.724
590.	5.32	34.32	0.77	3.07	27.12	102.3						
592.	5.27	34.31	0.72	2.76	27.12	102.4						
721.	4.77	34.44	0.82	3.02	27.29	87.4						
931.	4.10	34.52	1.02	2.93	27.42	76.0						
1000.**	4.00**	34.53**			27.43	74.7						

TEMPERATURE ERROR TERM AT 700. METERS IS 0.12

ΔFROM BT DATA
**EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 10, STATION 33, 20-23N LAT, 147-59W LONG, NCV. 19, 1964, 1900 G.C.T.														
DRY BULB 23.2		WET BULB 20.5		WIND SPEED 11, DIR. 07		BAR. 15		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.19	34.81	5.14	0.24	23.46	443.3	0.	24.19	34.81	23.46	443.3	0.000		
9.	24.31	34.89	5.31	0.27	23.49	441.3	10.	24.32	34.89	23.49	441.2	0.045		
30.Δ	24.32	34.90			23.49	441.6	20.	24.34	34.91	23.49	441.2	0.089		
50.Δ	24.26	34.91			23.52	440.0	30.	24.32	34.90	23.49	441.6	0.133		
75.Δ	24.20	34.92			23.54	438.5	50.	24.26	34.91	23.52	440.0	0.222		
101.	21.53	35.15*	5.45	0.60	24.48	349.7	75.	24.20	34.92	23.54	438.5	0.333		
127.	20.54	35.16	5.26	0.40	24.76	324.2	100.	21.64	35.14	24.44	353.3	0.433		
152.	19.52	35.06	4.85	0.38	24.95	306.6	150.	19.61	35.07	24.94	307.9	0.599		
177.	18.06	34.85	4.70	0.58	25.16	287.2	200.	16.87	34.72	25.34	270.2	0.745		
192.	17.49	34.79	4.76	0.58	25.25	278.7	250.	12.66	34.22	25.88	219.4	0.868		
223.	14.77	34.46	4.85	0.61	25.62	243.7	300.	10.39	34.09	26.20	189.5	0.971		
252.	12.52	34.21	5.00	0.96	25.96	217.9	400.	7.63	34.07	26.62	149.4	1.142		
280.	11.19	34.12	4.95	1.18	26.08	200.8	500.	6.26	34.18	26.89	123.6	1.280		
302.	10.32	34.09	4.93	1.14	26.21	188.4	600.	5.51	34.35	27.12	102.6	1.395		
402.	7.59	34.07	3.03	2.22	26.67	148.8	700.	5.03	34.43	27.24	91.8	1.493		
506.	6.21	34.19	1.23	2.60	26.91	122.3	800.	4.67	34.46	27.31	86.2	1.583		
607.	5.47	34.36	0.61	2.89	27.13	101.4	1000.	4.01	34.51	27.42	76.4	1.747		
808.	4.65	34.46	0.74	3.18	27.31	85.9	1200.	3.45	34.54	27.50	69.1	1.895		
1010.	3.98	34.51		2.60	27.42	76.0	1500.	2.76	34.59	27.60	59.2	2.090		
1212.	3.42	34.54	1.31	3.60	27.56	68.7								
1512.	2.74	34.59	1.82	2.98	27.66	58.9								

CROMWELL 10, STATION 34, 21-57N LAT, 147-59W LONG, NCV. 20, 1964, 0400 G.C.T.														
DRY BULB 23.3		WET BULB 20.0		WIND SPEED 07, DIR. 03		BAR. 14		WEATHER 02		VIS. 8		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.10	34.71	5.28	0.49	23.41	447.9	0.	24.10	34.71	23.41	447.9	0.000		
9.	24.01	34.70	5.31	0.25	23.43	446.5	10.	24.00	34.71	23.44	445.8	0.045		
30.Δ	23.86	34.88			23.61	430.1	20.	23.92	34.78	23.52	438.6	0.090		
50.Δ	23.78	35.00			23.73	419.9	30.	23.86	34.88	23.61	430.1	0.133		
74.	23.35	35.25	5.23	0.19	24.04	390.8	50.	23.78	35.00	23.73	419.9	0.219		
97.	21.78	35.23	5.44	0.22	24.47	350.4	75.	23.28	35.25	24.06	389.0	0.321		
121.	21.02	35.25	5.28	0.29	24.70	329.9	100.	21.67	35.23	24.51	347.3	0.414		
145.	19.91	35.16	4.99	0.33	24.93	308.9	150.	19.72	35.14	24.96	305.7	0.578		
169.	19.08	35.07	4.97	0.35	25.07	295.6	200.	17.97	34.89	25.22	282.6	0.726		
183.	18.62	35.01	5.12	0.31	25.14	289.2	250.	13.52	34.27	25.74	232.7	0.856		
216.	16.98	34.73	5.04	0.42	25.33	272.1	300.	10.87	34.07	26.10	199.0	0.965		
239.	14.46	34.38	5.08	1.03	25.63	243.5	400.	7.61	34.05	26.60	150.9	1.142		
263.	12.61	34.13	4.94	0.87	25.85	222.1	500.	6.22	34.13	26.86	127.1	1.282		
286.	11.50	34.10	4.83	1.04	26.00	207.9	600.	5.49	34.25	27.04	109.9	1.402		
379.	8.08	34.04	3.71	1.96	26.53	157.9	700.	5.01	34.37	27.20	95.9	1.506		
473.	6.51	34.10	1.92	2.62	26.80	132.6	800.	4.65	34.46	27.31	86.1	1.598		
566.	5.69	34.20	1.11	2.84	26.98	115.6	1000.	3.99	34.51	27.42	75.7	1.761		
753.	4.83	34.43	0.71	2.77	27.26	89.8	1200.	3.44	34.56	27.51	67.6	1.907		
940.	4.18	34.50	1.03	2.84	27.35	78.5								
1130.	3.62	34.54	1.31	2.93	27.48	70.5								
1421.	2.95	34.58	1.69	2.93	27.58	61.6								

CROMWELL 10, STATION 35, 23-27N LAT, 147-57N LONG, NCV. 20, 1964, 1400 G.C.T.														
DRY BULB 20.1		WET BULB 18.6		WIND SPEED 22, DIR. 05		BAR. 15		WEATHER 01		VIS.		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.29	35.13	5.18	0.32	23.97	395.0	0.	23.29	35.13	23.97	395.0	0.000		
10.	23.32	35.13	5.15	0.25	23.96	396.2	10.	23.32	35.13	23.96	396.2	0.040		
50.Δ	23.31	35.13			23.96	397.4	20.	23.33	35.13	23.96	396.8	0.080		
75.Δ	23.30	35.13			23.97	398.1	30.	23.33	35.13	23.96	397.2	0.120		
99.	21.74	35.24	5.31	0.17	24.49	348.7	50.	23.31	35.13	23.96	397.4	0.200		
124.	20.50	35.24	5.14	0.22	24.83	317.3	75.	23.30	35.13	23.97	398.1	0.300		
149.	19.28	35.04	4.74		25.00	302.0	100.	21.69	35.24	24.51	347.1	0.394		
173.	18.16	34.90	4.83	0.40	25.17	285.8	150.	19.23	35.03	25.01	301.3	0.557		
187.	17.65	34.83	4.88	0.44	25.25	279.4	200.	16.96	34.72	25.33	271.6	0.702		
221.	15.64	34.54	4.66	0.75	25.49	256.3	250.	13.73	34.35	25.76	230.8	0.828		
247.	13.92	34.37	4.75	0.73	25.74	233.4	300.	11.40	34.19	26.09	199.8	0.937		
271.	12.52	34.26	4.93	0.87	25.93	214.7	400.	8.84	34.06	26.43	168.1	1.122		
295.	11.56	34.20	5.01	0.99	26.07	201.9	500.	6.74	34.03	26.71	141.0	1.279		
392.	9.03	34.07	4.46	1.60	26.41	170.5	600.	5.34	34.11	26.96	117.9	1.409		
492.	6.88	34.03	2.78	2.01	26.69	143.1	700.	4.77	34.24	27.12	102.4	1.521		
588.	5.44	34.10	1.39	2.36	26.93	120.1	800.	4.55	34.36	27.24	91.8	1.619		
784.	4.60	34.35	0.72	2.97	27.23	93.2	1000.	4.07	34.49	27.37	78.7	1.791		
981.	4.12	34.48	1.03	2.98	27.38	79.6	1200.	3.57	34.55	27.49	69.9	1.942		
1175.	3.62	34.53	1.26		27.47	71.5								
1472.	2.94	34.57	1.56	3.11	27.57	62.5								

TEMPERATURE ERROR TEMP AT 700. METERS IS 0.10

ΔFROM BT DATA
*INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 10, STATION 36, 25- ON LAT, 147-58W LONG, NOV. 20, 1964, 2300 G.C.T.												
DRY BULB 21.9	WET HULB 18.2		WIND SPEED 15, DIR. 09			BAR. 14	WEATHER 02	VIS. 7		CLOUD TYPE 6, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.56	35.40	5.08	0.42	24.38	355.5	0.	22.56	35.40	24.38	355.5	0.000
10.	22.56	35.39	5.04	0.41	24.38	356.6	10.	22.56	35.39	24.38	356.6	0.036
50.Δ	22.52	35.38			24.38	357.7	20.	22.56	35.39	24.37	357.2	0.072
75.Δ	22.44	35.37			24.39	357.2	30.	22.55	35.38	24.37	357.6	0.108
99.	20.98	35.30	4.87	0.19	24.75	324.4	50.	22.52	35.39	24.38	357.7	0.180
124.	20.47	35.27	5.10	0.20	24.86	314.4	75.	22.44	35.37	24.39	357.2	0.270
149.	19.84	35.20	4.98	0.57	24.98	304.3	100.	20.95	35.30	24.75	323.8	0.356
174.	18.40	34.96	4.95	0.86	25.16	287.2	150.	19.80	35.19	24.98	303.8	0.514
188.	17.35	34.79	4.93	0.68	25.29	275.3	200.	16.55	34.67	25.39	265.9	0.657
223.	15.10	34.50	4.99	0.55	25.58	247.7	250.	13.38	34.34	25.83	224.7	0.781
248.	13.47	34.35	5.01		25.81	225.9	300.	11.53	34.22	26.09	200.3	0.888
274.	12.52	34.29	5.09	0.91	25.96	212.6	400.	9.11	34.08	26.40	171.4	1.076
298.	11.59	34.22	5.04	0.99	26.08	201.0	500.	6.66	34.02	26.72	140.8	1.233
397.	9.19	34.08	4.69	1.49	26.39	172.4	600.	5.47	34.11	26.93	120.1	1.365
497.	6.71	34.02	2.79	2.16	26.71	141.6	700.	4.82	34.24	27.11	103.3	1.478
595.	5.51	34.10		2.71	26.92	121.0	800.	4.46	34.37	27.26	90.5	1.576
792.	4.49	34.36	0.75	2.82	27.25	91.2	1000.	3.96	34.48	27.40	77.6	1.746
991.	3.98	34.48	1.04	3.64	27.40	78.0	1200.	3.50	34.54	27.50	69.3	1.895
1188.	3.51	34.53	1.36	3.02	27.48	70.3						
1483.	2.99	34.57	1.53	3.07	27.56	63.2						

CROMWELL 10, STATION 37, 26-30N LAT, 148- ON LONG, NOV. 21, 1964, 0800 G.C.T.												
DRY BULB 21.9	WET HULB 19.1		WIND SPEED 27, DIR. 09			BAR. 16	WEATHER 03	VIS.		CLOUD TYPE , COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.17	35.41	5.30		24.50	344.2	0.	22.17	35.41	24.50	344.2	0.000
12.	22.21	35.41	5.32		24.49	345.7	10.	22.20	35.41	24.49	345.5	0.035
50.Δ	22.18	35.40			24.49	347.1	20.	22.22	35.41	24.49	346.3	0.070
75.Δ	22.10	35.39			24.51	346.6	30.	22.22	35.41	24.48	346.9	0.104
98.	19.35	35.03	5.31		24.97	302.7	50.	22.18	35.40	24.49	347.1	0.174
126.	18.09	34.88	5.04		25.18	284.1	75.	22.10	35.39	24.51	346.6	0.262
156.	16.74	34.70	5.04		25.36	267.0	100.	19.22	35.01	24.99	300.7	0.343
176.	15.68	34.58	5.04		25.52	252.9	150.	17.02	34.74	25.33	270.5	0.487
192.	14.87	34.51	5.10		25.64	241.2	200.	14.47	34.47	25.70	236.1	0.615
225.	13.31	34.35	5.12		25.85	222.2	250.	12.41	34.28	25.97	210.4	0.727
252.	12.35	34.28	5.15		25.98	209.6	300.	11.32	34.23	26.14	195.5	0.830
277.	11.64	34.24	5.14		26.09	200.0	400.	9.11	34.10	26.42	169.3	1.014
303.	11.29	34.23	5.17	1.13	26.14	195.0	500.	6.91	34.01	26.67	144.9	1.172
403.	9.03	34.10	4.76	2.90	26.43	168.5	600.	5.54	34.06	26.89	124.1	1.308
508.	6.76	34.01	3.27	2.20	26.69	143.1	700.	4.79	34.17	27.06	108.2	1.426
606.	5.48	34.07	1.79	2.76	26.90	123.0	800.	4.37	34.28	27.20	95.7	1.529
808.	4.35	34.29	0.58		27.21	94.9	1000.	3.80	34.44	27.38	79.2	1.706
1008.	3.78	34.44	0.81	2.97	27.39	78.8	1200.	3.31	34.52	27.49	68.9	1.956
1205.	3.30	34.52	1.20	3.08	27.50	68.7	1500.	2.81	34.57	27.58	61.2	2.054
1506.	2.80	34.57	1.60	3.17	27.58	61.1	2000.	2.12	34.63	27.69	51.0	2.339
2009.	2.11	34.63	0.85	3.29	27.69	50.9	2500.	1.74	34.67	27.75	45.2	2.584
2504.	1.74	34.67	2.47	3.69	27.75	45.2	3000.	1.56	34.68	27.77	43.7	2.911
3004.	1.56	34.68	2.99	2.56	27.77	43.7	4000.	1.49	34.70	27.79	44.0	3.260
4004.	1.49	34.70	3.62	2.20	27.79	44.0						

CROMWELL 10, STATION 38, 25- 2N LAT, 150-58W LONG, NOV. 22, 1964, 0400 G.C.T.												
DRY BULB 21.9	WET HULB 20.5		WIND SPEED 20, DIR. 19			BAR. 08	WEATHER 02	VIS. 6		CLOUD TYPE 6, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.29	35.12			23.96	395.7	0.	23.29	35.12	23.96	395.7	0.000
10.	23.33	35.11			23.94	397.9	10.	23.33	35.11	23.94	397.9	0.040
30.Δ	23.24	35.19			24.03	390.4	20.	23.31	35.14	23.97	395.8	0.080
50.Δ	22.90	35.32			24.22	372.4	30.	23.24	35.19	24.03	390.4	0.120
76.	22.54	35.40			24.39	357.8	50.	22.90	35.32	24.22	372.4	0.196
103.	21.49	35.28			24.59	339.4	75.	22.56	35.40	24.38	358.3	0.288
126.	19.93	35.11			24.88	312.3	100.	21.64	35.30	24.56	341.9	0.377
152.	19.28	35.11			25.05	297.0	150.	19.31	35.11	25.04	297.9	0.538
176.	18.51	35.00			25.16	287.1	200.	17.55	34.83	25.27	277.5	0.683
192.	18.01	34.91			25.27	282.2	250.	14.24	34.41	25.70	236.8	0.912
227.	15.70	34.55			25.49	257.0	300.	11.73	34.18	26.02	206.9	0.924
253.	14.06	34.40			25.73	234.2	400.	9.09	34.07	26.39	171.7	1.115
278.	12.71	34.27			25.90	217.8	500.	6.86	34.03	26.70	142.9	1.274
302.	11.65	34.17			26.03	205.9	600.	5.53	34.11	26.93	120.3	1.407
403.	9.04	34.07			26.40	170.9	700.	4.79	34.23	27.11	103.9	1.520
506.	6.74	34.03			26.71	141.4	800.	4.38	34.33	27.24	92.0	1.619
605.	5.48	34.12			26.94	119.3	1000.	3.95	34.48	27.40	78.1	1.791
806.	4.37	34.34			27.24	91.4	1200.	3.51	34.54	27.49	69.8	1.941
1008.	3.94	34.48			27.40	77.7	1500.	2.91	34.57	27.57	62.3	2.142
1209.	3.49	34.54			27.49	69.5						
1510.	2.89	34.57			27.57	62.2						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 10, STATION 39, 25-14N LAT, 153-59W LONG, NOV. 22, 1964, 2000 G.C.T.													
DRY BULB 24.5		WET BULB 22.5		WIND SPEED 22, DIR. 21		BAR. 11		WEATHER 01		VIS. 7		CLOUD TYPE 6, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.31	35.16	5.02		23.99	393.3	0.	23.31	35.16	23.99	393.3	0.000	
11.	23.29	35.16			23.99	393.2	10.	23.29	35.16	23.99	393.3	0.040	
77.	22.43	35.25	5.05		24.31	365.7	20.	23.27	35.17	24.01	392.1	0.079	
102.	21.56	35.23	4.97		24.51	344.8	30.	23.21	35.19	24.03	389.8	0.119	
133.	20.98	35.22	4.81		24.69	331.5	50.	22.98	35.22	24.12	382.2	0.196	
154.	20.22	35.18	4.80		24.86	315.6	75.	22.48	35.25	24.29	367.2	0.291	
178.	19.11	35.01	4.67		25.02	301.0	100.	21.63	35.23	24.52	346.4	0.381	
193.	18.54	34.95	4.72		25.12	292.0	150.	20.38	35.19	24.83	318.7	0.548	
233.	16.29	34.64	4.66		25.42	263.6	200.	18.25	34.91	25.16	288.3	0.701	
254.	14.40	34.44	4.80		25.69	238.3	250.	14.76	34.48	25.64	242.9	0.835	
280.	12.89	34.28	4.83		25.88	220.5	300.	12.01	34.21	26.00	209.4	0.949	
305.	11.82	34.20	4.83		26.02	206.9	400.	9.75	34.11	26.32	179.4	1.145	
406.	9.67	34.11	4.64		26.33	178.2	500.	7.38	34.02	26.62	150.8	1.312	
508.	7.20	34.02	3.30		26.64	148.6	600.	5.71	34.07	26.88	125.7	1.452	
608.	5.61	34.08	1.56		26.90	123.9	700.	4.85	34.18	27.06	108.1	1.570	
810.	4.41	34.31	0.69		27.22	94.1	800.	4.43	34.30	27.20	95.2	1.673	
1011.	3.89	34.48	1.02		27.41	77.1	1000.	3.91	34.47	27.40	77.8	1.848	
1212.	3.42	34.54	1.29		27.56	68.7	1200.	3.45	34.54	27.50	69.0	1.996	
1514.	2.81	34.58	1.60		27.59	60.5	1500.	2.84	34.58	27.59	60.8	2.194	
1990.	2.14	34.63	2.09		27.69	51.2	2000.	2.13	34.63	27.69	51.0	2.478	
2488.	1.78	34.66	2.51		27.74	46.4	2500.	1.77	34.66	27.74	46.3	2.726	
2998.	1.58	34.69	2.34		27.78	43.2	3000.	1.56	34.69	27.78	43.3	2.955	
3986.	1.49	34.70	3.48		27.79	44.0							

CROMWELL 10, STATION 40, 24-59N LAT, 157-0W LONG, NOV. 23, 1964, 1400 G.C.T.													
DRY BULB 23.5		WET BULB 21.8		WIND SPEED 17, DIR. 22		BAR. 13		WEATHER 02		VIS.		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.93	35.23			24.15	377.8	0.	22.93	35.23	24.15	377.8	0.000	
10.	22.94	35.23			24.15	376.5	10.	22.94	35.23	24.15	378.5	0.038	
30.Δ	22.94	35.23			24.15	379.3	20.	22.94	35.23	24.14	379.0	0.076	
50.Δ	22.90	35.23			24.16	378.9	30.	22.94	35.23	24.15	379.3	0.114	
75.Δ	22.82	35.22			24.17	378.4	50.	22.90	35.23	24.16	378.9	0.191	
102.	20.50	35.09			24.72	327.3	75.	22.82	35.22	24.17	378.4	0.286	
127.	19.94	35.05			24.83	316.9	100.	20.68	35.10	24.68	331.2	0.376	
153.	18.69	34.94			25.07	295.0	150.	18.87	34.96	25.04	297.9	0.534	
176.	17.11	34.75			25.31	272.4	200.	15.82	34.61	25.51	254.4	0.673	
191.	16.25	34.66			25.45	260.0	250.	13.40	34.33	25.82	225.6	0.794	
225.	14.69	34.48			25.66	240.6	300.	11.78	34.22	26.04	204.7	0.903	
251.	13.35	34.33			25.82	225.1	400.	9.21	34.10	26.40	171.4	1.093	
278.	12.71	34.32			25.94	214.1	500.	7.34	34.04	26.64	148.9	1.254	
303.	11.64	34.20			26.06	203.5	600.	5.65	34.10	26.90	123.1	1.392	
403.	9.16	34.10			26.41	170.6	700.	4.81	34.20	27.09	105.9	1.567	
504.	7.27	34.04			26.65	148.0	800.	4.43	34.32	27.22	93.8	1.608	
603.	5.61	34.10			26.91	122.4	1000.	3.87	34.46	27.39	78.5	1.783	
804.	4.42	34.32			27.22	93.5	1200.	3.22	34.53	27.51	67.1	1.930	
1006.	3.86	34.46			27.39	78.2	1500.	2.74	34.57	27.59	60.3	2.124	
1207.	3.20	34.53			27.51	66.8							
1506.	2.73	34.57			27.59	60.2							

CROMWELL 10, STATION 41, 23-30N LAT, 157-0W LONG, NOV. 23, 1964, 2400 G.C.T.													
DRY BULB 25.0		WET BULB 22.6		WIND SPEED 07, DIR. 16		BAR. 15		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.62	35.22			23.94	397.6	0.	23.62	35.22	23.94	397.6	0.000	
10.	23.53	35.22			23.97	395.5	10.	23.53	35.22	23.97	395.5	0.040	
30.Δ	23.30	35.23			24.04	389.2	20.	23.41	35.22	24.00	392.5	0.080	
49.	23.15	35.26			24.11	383.6	30.	23.30	35.23	24.04	389.2	0.119	
74.	23.30	35.28			24.08	387.3	50.	23.15	35.26	24.11	383.7	0.197	
98.	23.19	35.33			24.15	381.6	75.	23.32	35.28	24.08	387.6	0.294	
122.	20.81	35.12			24.66	333.9	100.	23.02	35.32	24.19	377.9	0.390	
148.	19.40	35.01			24.94	307.1	150.	19.31	35.00	24.96	305.7	0.563	
171.	18.48	34.90			25.10	293.4	200.	17.03	34.74	25.33	271.7	0.708	
185.	17.90	34.84			25.19	284.4	250.	13.67	34.37	25.79	228.8	0.834	
219.	15.74	34.60			25.52	254.0	300.	11.70	34.25	26.08	201.1	0.943	
245.	13.88	34.39			25.76	231.1	400.	9.16	34.09	26.40	171.2	1.131	
269.	12.98	34.30			25.87	220.5	500.	6.69	34.03	26.72	140.4	1.288	
293.	11.93	34.26			26.05	204.2	600.	5.35	34.11	26.95	118.6	1.419	
393.	9.36	34.10			26.38	173.6	700.	4.72	34.24	27.12	102.2	1.530	
490.	6.87	34.03			26.69	142.9	800.	4.45	34.36	27.25	90.6	1.628	
587.	5.46	34.09			26.92	121.0	1000.	3.93	34.47	27.39	78.2	1.798	
783.	4.50	34.35			27.24	92.0	1200.	3.35	34.54	27.51	67.5	1.946	
979.	4.00	34.46			27.38	79.7							
1176.	3.34	34.54			27.51	67.5							
1470.	2.74	34.58			27.60	59.4							

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 10, STATION 42, 21-57N LAT, 157- 0W LONG, NOV. 24, 1964, 1000 G.C.T.													
DRY BULB 25.5		WET BULB 23.3		WIND SPEED 13, DIR. 21		BAR. 17		WEATHER 02		VIS.		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.49	34.99			23.51	438.8	0.	24.49	34.99	23.51	438.8	0.000	
10.	24.48	35.00			23.52	438.2	10.	24.48	35.00	23.52	438.2	0.044	
30. ^Δ	24.38	35.02			23.56	434.7	20.	24.44	35.01	23.54	436.7	0.088	
40. ^Δ	24.26	35.04			23.62	430.6	30.	24.38	35.02	23.56	434.7	0.132	
78.	22.88	35.16			24.11	384.5	50.	24.26	35.04	23.62	430.6	0.219	
102.	21.92	35.20			24.41	356.5	75.	23.05	35.15	24.05	390.2	0.323	
127.	20.88	35.23			24.72	327.9	100.	22.00	35.20	24.39	358.7	0.417	
153.	20.08	35.14			24.87	314.9	150.	20.18	35.16	24.85	316.1	0.587	
177.	18.98	34.99			25.04	299.2	200.	17.10	34.75	25.31	273.3	0.736	
192.	17.79	34.84			25.22	282.1	250.	13.59	34.37	25.80	227.1	0.862	
226.	15.02	34.43			25.59	247.5	300.	10.67	34.17	26.21	188.5	0.966	
252.	13.47	34.36			25.82	225.3	400.	7.91	34.08	26.59	152.6	1.139	
278.	11.36	34.19			26.10	198.6	500.	6.67	34.15	26.82	131.1	1.282	
303.	10.61	34.17			26.22	187.5	600.	6.02	34.29	27.01	113.3	1.405	
403.	7.84	34.08			26.60	151.8	700.	5.53	34.39	27.15	101.0	1.513	
503.	6.60	34.15			26.83	130.5	800.	5.10	34.45	27.25	92.3	1.611	
604.	6.00	34.30			27.02	112.7	1000.	4.30	34.50	27.38	80.6	1.786	
804.	5.08	34.45			27.25	92.0	1200.	3.61	34.53	27.47	71.6	1.940	
1004.	4.29	34.50			27.38	80.5	1500.	2.91	34.57	27.57	62.4	2.144	
1202.	3.60	34.53			27.47	71.5							
1502.	2.91	34.57			27.57	62.4							

ΔFROM BT DATA

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